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U.S. Dep. of Agr.  
Washington, D.C.

# Barteldes Western Seeds

•1913•

The Barteldes Seed Co.  
Colorado Seed House  
Denver, Colorado.



# THE KITCHEN GARDEN

The soil for a vegetable garden should be free from stones or stumps and easily cultivated. Wet land, that cannot be drained, should be avoided, as all crops suffer more from too much water than from drouth. Land which has a gentle rolling or undulating surface, with a southern exposure, is the most desirable for general gardening operations, since it receives the full sunlight and allows the most perfect control of the water that falls upon it. A garden should be cultivated often, as cultivation prevents evaporation and so saves the moisture in it. Water should not be applied unless the crop is suffering for it. Whenever the garden has been irrigated, it should be cultivated as soon as possible, to prevent the soil from baking. The water must be applied enough to nicely moisten the land, but avoid getting it water-soaked. The crops should be rotated to avoid insect enemies, to deepen the soil, and to use the plant food in the land to best advantage, since crops vary very much in the amount of the different elements which enter into their composition. Some plants feed largely near the surface, while others take their food mostly from a lower level. Root crops should not follow root crops, nor should vines follow vines for many years in succession on the same land. Nitrogen, phosphorus and potash are the most important elements in the composition of our cultivated plants, and must be furnished to the ground in a great quantity if good crops are expected. By the proper cultivation of the garden we accomplish three things: (1) The weeds are kept out so they do not shade the young plants, neither take away any plant food or moisture. (2) The surface of the soil is brought into best condition to resist drouth and to take in all the moisture from rains. (3) The inert plant food in the soil is made soluble by the combined actions of the sun and the air.

In order to secure a good germination of the seeds, they should be sown in mellow soil, and this packed around them just firm enough to bring it in good contact. Unless the seed is carefully and properly placed and covered, the crop cannot get a good start. Seeds will not sprout in the absence of air and, on that account, seeds that are sown too deep fail to come up.

In planting the garden it is important to put all the perennial crops, or all crops maturing at about the same time, together, so as to render the work of cultivating easier. Seeds have to be put in the ground at different times in the spring. Some can be sown as soon as the ground can be worked, while others, such as beans, corn and all vines must not go in till danger of frost is passed and the ground is warm.

Most people sow the seeds too deep, and then blame the seedsmen for selling poor seeds, when the fault is theirs. All small seeds, like cabbage, lettuce, onion, etc., should not be sown deeper than  $\frac{3}{4}$  inch, and, in a good many cases when the spring is rather wet,  $\frac{1}{2}$  inch would be better. Beans will do best if sown about 2 inches, while sweet corn should be covered 1 to  $1\frac{1}{2}$  inches deep. Peas are the only crop that will do well if planted more than 2 inches deep.

Insects will attack the vegetable garden, and some, as the cut worm, are hard to kill off. The only sure remedy against the cut worm is to envelop the stem of the plant with a piece of paper projecting 2 inches above the ground and one-half inch in the ground.

Peas, on turnip and cabbage, can be destroyed by using either powdered tobacco, Slug-Shot or Kerosene Emulsion, and worms that eat the leaves will be destroyed by spraying the leaves above and underneath with Arsenate of Lead or Paris Green. Kerosene Emulsion is made by mixing thoroughly 15 to 20 per cent. of kerosene with 80 to 85 per cent. of clear water. A small piece of hard soap dissolved in it will greatly improve it and make it stick onto the plants. On melon and squash vines 10 to 12 per cent. of kerosene is enough or it will burn the leaves.

## HOW TO MAKE A HOT BED:

First pile up some fresh horse manure, not taking too much bedding, and wet it thoroughly. In two or three days it must be turned over, throwing the outside manure in the center of the new pile and breaking up all the lumps. In four or five days it will have to be turned again before it is ready to put in the bed. Dig a trench 5 feet 8 inches wide by 24 or 30 inches deep and any length desired. In the trench put the manure that has already been heated, putting a layer of 6 inches at one time, and then wetting it good, and keep putting 6-inch layers and wetting every time till you have two feet of manure, and then top it with 6 inches of well pulverized soil. Then make a frame with one or two-inch boards, 12 inches wide for the back, and 6 inches for the front, and cover with sash 3 by 6 feet. If you cannot get a glass sash, a wooden frame of same dimensions, covered with hotbed cloth, will be almost as good. After the soil is on the manure, the bed will commence to heat up but will be too hot to sow seeds, and it will take about a week before it is safe to sow it. Care should be taken to water the heated enough, and ventilate it whenever the weather permits, or the plants will be liable to be damped off and die.

## GARDEN PLANTING CALENDAR FOR COLORADO AND SURROUNDING STATES.

South or North of Colorado seasons will be two or three weeks earlier or later.

### JANUARY.

Look up and repair hotbed sashes. Save the horse manure from day to day and pile up in thin layers to prevent heating. Make up your order for seeds to have them on hand when needed, and avoid delay in getting them later.

### FEBRUARY.

Make up your hotbeds and be ready to sow them. Prune your fruit trees, spread manure over the garden and get all garden tools in good order.

### MARCH.

Cabbages, cauliflowers and celery for early crop must be sown in hotbeds early in this month. Beets and lettuces can also be started in a hotbed for extra early. Egg-plants, tomatoes and peppers must be started in hotbed the latter part of the month. Smooth seeded peas can be sown outside if ground is in condition. Grafting may be done in favorable weather. All fruit trees should be pruned by the end of the month.

### APRIL.

Sow outside all kinds of vegetable seeds, except beans, corn, cucumbers, melons and squash. Hardy annual flower seeds may also be sown now. Clean up strawberry plants and rhubarb. Uncover and prune blackberries and raspberries and transplant young plants. Transplant asparagus roots and cultivate old patch before crowns start to grow. Transplant outside the latter part of the month cabbages and cauliflowers. Start the new lawn or rake off manure from old lawn. Plant all hardy perennial flowering plants and shrubs.

### MAY.

Sow beets, carrots, lettuces, radishes and turnips for a succession, also beans, corn,

cucumbers, melons and squashes. Transplant outside early celery, egg-plants, peppers and tomatoes. Sow celery, and cabbages for main crops. Finish planting and transplanting onions. Sow all kinds of flower seeds. Commence cultivating and weeding all growing crops.

### JUNE.

Finish sowing beets, mangels, carrots and cucumbers. Sow beans, lettuces, peas, endives and radishes for a succession. Set cabbages, cauliflowers and celery for main crop. Towards the latter part of the month cease cutting asparagus and allow the shoots to grow. Cultivate cucumbers, melons and squashes often, and look out for bugs. Pinch off all side shoots on tomato plants if you want early fruits.

### JULY.

Sow bush beans, peas and summer radishes for a succession. Sow the latter part of the month winter radishes, endives, rutabagas and turnips for winter use. Finish setting cabbages and celery for late crops. Lettuce seed this month will not germinate good unless sown in a cool and moist place. Cut back to  $2\frac{1}{2}$  or 3 feet, young canes of raspberries and blackberries.

### AUGUST.

Sow turnips for winter use, also corn salad for fall use and onion seed for early spring use. Harvest onions sown in the spring as soon as the bulbs are well matured. Tomatoes may be hastened in coloring by pinching off a part of the foliage to expose the fruits.

### SEPTEMBER.

Sow spinach for early fall use and transplant endives. Early red radishes will do

well again and can be sown twice or three times for a succession, sow corn salad for winter use. Commence potting flowers for windows and conservatories. Get your supply of winter flowering bulbs such as hyacinths, tulips, narcissus, etc., and start them in the cellar.

### OCTOBER.

Remove to the house or conservatory all plants wanted for winter use. Start some more flowering bulbs and plant outside bulbs wanted for early spring. Get well matured cabbage heads and store them away. Sow spinach seed for early spring. Blanch the endives by gathering up the leaves and tying them lightly at the tips. Commence trenching celery for winter use.

### NOVEMBER.

Commence to bring into the house a few at a time, flowering bulbs started in September and they will soon be in bloom. Take up summer flowering bulbs, such as gladioli, cannas, dahlias, etc., and put away in the cellar. Cover with straw or leaves endive and corn salad and finish trenching celery. Raspberry and blackberries must be covered with soil before the end of the month.

### DECEMBER.

Bring into the house flowering bulbs which you want to be in bloom for Christmas. Gather all weeds and leaves in the garden and burn them, as they may shelter insects and eggs. Manure good and give some kind of protection to rosebushes and other flowering shrubs which are not perfectly hardy. Last, but not least, ask for our annual catalogue of "Western Seeds" which is generally issued the latter part of the month.

## FLOWER GARDEN

**GENERAL CULTURE.** The soil, for a flower garden, should be made light, porous and rich by adding plenty of well rotted manure on light, poor soils, and plenty sand on sticky and heavy ones. It should be dug up deep, made very loose and fine by the constant use of the rake, and as level as possible to allow the water to reach every spot without standing on any. Water lying on top of a newly seeded or planted bed is sure to decay either plants or seeds and, if not quite enough to decay will, under the action of the sun, bake the ground so hard that the small and weak germs, just starting out, will be smothered under the crust. Most of the flower seeds are so fine that they should be sown on top of the loose ground, covered very lightly with fine ground or manure, and pressed down with a roller or the hand. Principal causes of failure in raising flowers are due to too deep sowing or lack of water at the proper time. As flower seeds, in general, are sown shallow, light but frequent sprinklings are all that is needed. It is no use to have the water reach 3 or 4 inches deep when the seeds are only one-fourth of an inch under the surface; the same quantity of water, applied four times, will do more good. The main object is to keep the soil around the seeds moist, as air and moisture are needed to insure a good germination, and to prevent the ground from getting a hard crust.

A good way to know how deep to sow flower seeds is to cover the seed from 4 to 8 times its depth, using the small figure for the finest seeds. Sweet peas are an exception to the rule and may be planted 3 or 4 inches deep. Flower seeds cannot be sown all at one time, as some tropical kinds, such as Portulaca (moss-rose), require a warmer temperature to start growing and must be planted only when the ground is real warm. Germination also varies with different kinds, some sprouting in 8 or 10 days, while others will stay 3 and 4 weeks in the ground. Flowers are divided into three classes:

1. Annuals—Plants that grow, bloom, raise seeds and die the same year.
2. Biennials—Which generally do not bloom until the second year and then die.
3. Perennials—Which bloom the second season, but last several years and may be propagated by the division of the roots.

Annuals are sown in the spring, but Biennials and Perennials can be sown in late summer, wintered over and by so doing, gain one year's time. These two kinds of plants can, on approach of winter, be potted and carried in the house, where they will bloom through the winter.



**SEND MONEY WITH ALL ORDERS**



## DENVER, COLORADO

# ORDER SHEET

Date \_\_\_\_\_

(Write very plain)

### Post Office

## State

Street and No.

County

**P. O. Box**

R. F. D. No.

Express or Freight Office

Express Co. or Railroad

**POSTAGE**

If wanted by mail postage at the rate of 8c per pound must be added on BEANS, CORN, PEAS and FIELD SEEDS. On SUNDRY ARTICLES at the rate of 16c per pound, 10c per quart on ONION SETS. Other seeds priced per packet, ounce, one-fourth pound and pound, are postage paid unless otherwise mentioned in Catalogue.



## GUARANTEE

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs or Plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.—  
THE BARTELDES SEED CO.

FOR BARTEDES' BEST LINE OF POULTRY SUPPLIES SEE PAGE 105 OF THE GENERAL CATALOGUE

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Amount Carried Forward, - -

## Do You Grow for Market or Home Use?

**If you have anything to write to us with this order please write it on a separate sheet.**

If in need of more order sheets and self-addressed envelopes ask for them and they will be mailed to you free.





# To Our Friends and Customers

We take pleasure in handing you our 1913 catalogue, and we wish to express our thanks to the thousands of our customers for their liberal patronage. We have listed only varieties that, after being thoroughly tested, have proven to possess real merit.

It does not cost so much care to tend good plants as it does to bother with poor ones. Get good plants by sowing Western Seeds." No better seeds are sold anywhere, and none are so well acclimated to our Western country.

Everything stated herein is based on facts. The prices are reasonable considering the quality of seeds; the descriptions and illustrations are truthful, and we shall be very glad if the cultural directions prove useful to you.

Let us have your order early for the coming season, while our stock is complete; do not wait till the last moment, but have "Western Seeds" on hand when you need them. No matter how small or how large your order may be we shall take care of it to your entire satisfaction.

For 34 years we have been selling seeds to the "Western Planters," and the increasing trade from year to year, not only from all the Western States; but also from foreign countries, is the best proof of the satisfaction obtained in planting "Western Seeds."

## GUARANTEE

Seeds of the best quality are apt to fail through improper treatment by sowing the seed too deep or too shallow, or too wet or too dry soil. They differ greatly as to the temperature required for germination. Some will germinate rapidly at a certain temperature, while others, if sown under the same conditions, are apt to decay, and for all these reasons it is impractical to guarantee seeds. The Barteldes Seed Co. gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

Wishing you a happy and prosperous New Year, we remain,

Very sincerely,  
THE BARTELDES SEED CO.

## Notice to Customers—Read Carefully

### Terms of Sale

No goods sent C. O. D. Please accompany your order with remittance in full by draft, money order or cash in registered letter. We take 2c postage stamps in moderate amounts.

### Order Early

We earnestly solicit our friends to send their orders to us early—at once—before the rush is on—No matter how small or large your order it will receive our careful attention.

Use the order sheet and our self-addressed envelope, and ask for more when you want them.

If goods do not arrive promptly after receiving our notice that goods have been shipped, please write us.

### Goods by Mail

All Garden, Flower and Tree Seeds, also certain Bulbs and Plants, are sent by mail or express without further cost, except Beans, Corn, Peas, Onion Sets, Grain, Grass and Field Seeds. Plants and other articles which require postage from 5 to 12 cents per pound added to remittance, when wanted by mail. Read carefully about postage, etc., under each department in this catalogue.

If postage allowed is more than actual cost of shipping goods—on account of the new Parcel-post law—we will either refund the difference, if amount is large enough, or will add seeds to make up the amount sent.

### Goods by Express or Freight

When ordering to be shipped at your expense goods priced "prepaid" you may deduct 8c per pound from prices. Often we send by express prepaid, instead of by mail, goods priced prepaid. If not convenient for you to receive by express be sure to mention when ordering.

Whenever our notification card says "Prepaid," you are to pay nothing. Write us at once if a charge is added.

## LIST OF PREMIUMS

### Premium Packets

Customers sending orders for seeds in packets and ounces not included in collections amounting to ..... 50c \$1.00 \$2.00 \$4.00  
may select additional packets or ounces amounting to, extra..... 10c .25 .50 1.00

Positively, the above offer is for seeds in packets and ounces only. Not in bulk, or other goods, and discount cannot be applied as postage.

We give to our customers on orders for mixed quantities of GARDEN AND FLOWER SEEDS, positively free, choice of following:

### Orders amounting to \$2.00 or over

Book, Practical Suggestions for Vegetable Culture, written by a practical man and prepared expressly for the vegetable gardener.

### Orders amounting to \$5.00 or over

Customers' selection one of the following books:

Vegetable Gardening. Prof. Green's latest edition; 115 illustrations.

The Poultry Manual, revised edition; 144 pages.

Spraying Crops; Why, When and How. By Prof. Weed.

Asparagus. Its culture for home use and market.

House Plants and How to Succeed With Them. Profusely illustrated. Just what the ladies want.

Amateur Fruit Growing. A reliable guide for beginners, also helpful to the experienced.

### Orders amounting to \$10.00 or over

Wagon Umbrella. A large, and very serviceable style; complete with fixtures ready for attaching to wagon. On this particular premium customer pays freight or express.

Be sure to mention about premiums when ordering, otherwise we are to conclude you do not want them.

We do not give premiums, presents or extras with orders or part order for Bulbs, Grass, Clover, Grain or Field Seeds, Implements, Poultry Supplies, Fertilizers, Bee Supplies and other Sundry Articles.

Market Gardeners, Nurserymen and Florists should ask for special catalogues issued expressly for their use.

ADDRESS ALL ORDERS

# THE BARTELDES SEED COMPANY

Box 1804.

Denver, Colorado.





OUR GENERAL OFFICE.

This is the place where thousands of orders are received, checked in and distributed to the different departments to be filled. We have here our own telephone exchange connecting with all departments. Pneumatic tubes and package carriers radiate from this room.



THE PACKING ROOM.

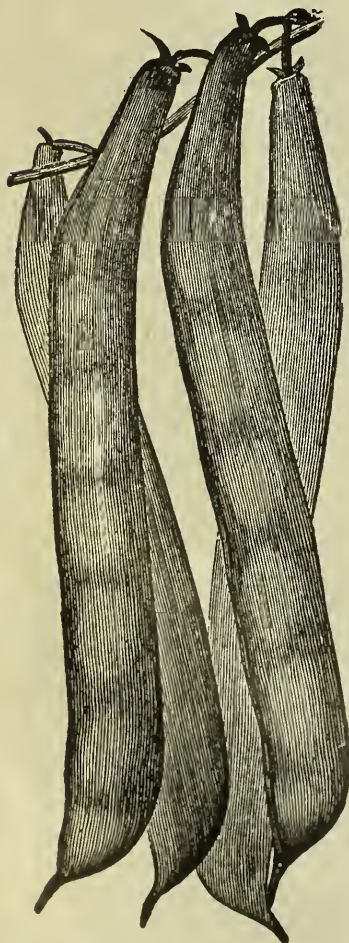
In this department we take care of your orders. No order is too small to receive our most careful attention. In this department we have a cabinet of 700 drawers and bins in which we keep all of the different varieties of seeds for filling your orders.

# Novelties & Specialties for 1913

## Bean—Barteldes' Stringless Green Pod

This new bean, which has originated in our own growing ground, and has been carefully cultivated, is the earliest of all stringless varieties, being 8 to 10 days earlier than any other variety. Plant is small, bushy, very erect, compact and very prolific. Pods are about 4½ inches long, straight, bright green, oval round through cross section, and containing 5 to 6 yellowish seeds of good quality.

Pkt., 5c; ½ lb., 15c; lb., 25c; 2 lbs., 40c.



Bean—Barteldes' Stringless.  
Green Pod.



Cabbage—Copenhagen Market.

## Cabbage—Copenhagen Market

This is the finest large round-headed medium early cabbage; the heads maturing all at the same time. They average about 10 pounds each; are very solid with small core and of fine quality. Sowed in March, they are ready for market the latter part of August, in our trial ground, and are about as early as Charleston Wakefield, but will give a much heavier yield per acre. It is short stemmed, with small saucer-shaped light green leaves, always tightly folded, and can, therefore, be planted very close.

Pkt., 10c; ½ oz., 50c; 1 oz., 90c; ¼ lb., \$3.00.





### THE SHIPPING DEPARTMENTS.

This gives two views of our Shipping Departments. From these departments we do all of our shipping and delivering, our shipping during the season amounting to many thousand pounds per day.



## Barteldes' Extra Select White Spine Cucumber

An early white spine cucumber of handsome, very dark green color, and of excellent quality for slicing; vines hardy and productive. The fruit grows from six to eight inches in length and very uniform in size and shape. Its dark green color is less affected by the sun than most other kinds and is retained much longer. Its splendid color, uniform size and shape makes it very popular as a shipping variety as well as for home use.

Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25.



Corn Howling Mob— $\frac{1}{2}$  Regular Size



Barteldes' Extra Select White Spine Cucumber.

## Corn Howling Mob

It is one of the earliest large ear corns, being only 4 to 5 days later than Cory White Cob when planted on same day. The ears measure 7 to 9 inches in length, 12 and 14 rowed; the grains are much whiter and sweeter than Cory. The stalks are strong growers, reaching a height of  $4\frac{1}{2}$  to 5 feet; have abundant foliage, and generally produce two fine ears to stalk. It is not troubled very much by green worms on account of its heavy husk.

Pkt., 5c;  $\frac{1}{2}$  lb., 10c; lb., 15c; 2 lbs., 25c.

THE BARTELDES SEED CO.,  
Denver, Colorado.

Gentlemen:

I sent for seeds and they were on the road for three weeks. The package came the next mail after I wrote you in regard to not receiving the goods, but you had already sent me a second amount of seeds, and I now inclose the amount for the second package. Thanking you very kindly for your prompt filling of the second package and honest dealing,

I am, yours very truly,

Grouse Creek, Utah.

MRS. GEO. A. COOK.



**OUR RETAIL STORE.**

1521-25 Fifteenth Street.

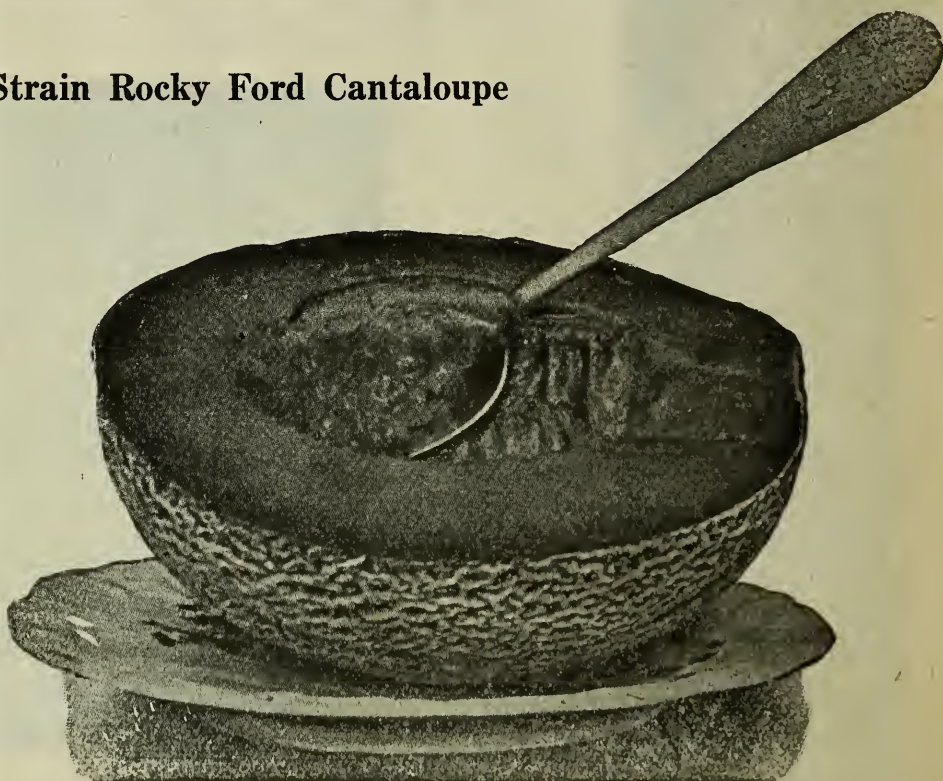
This gives a view of our Retail Department where we take care of our city customers. On the right hand side is our Retail Garden Seed and Florist Departments, and on the left, our Poultry and Implement Department.

This gives us a total floor space of 15,260 square feet, or one-third of an acre. In this building we also take care of the Christmas decorations; during December and part of November we have 25 or 30 extra workers making up wreaths and green roping. We make an average of 16,000 wreaths and 40,000 yards (about 22½ miles) of green roping. To make this quantity requires 1,000 lbs. of heavy wire for wreaths and 250 lbs. of the very fine wire used in winding the roping. We have 4,500 square feet in the basement, where we carry our complete line of Nursery Stock.

## Barteldes' Select Strain Rocky Ford Cantaloupe

This selected strain of cantaloupe is the result of many years extra selection of the best shaped and earliest fruits, grown on the most vigorous and healthy plants. The skin is green, turning to a grayish color when ready for market, and heavily netted. The fruit is oblong, weighing from 1¼ lbs. to 1¾ lbs.; has a small seed cavity; the flesh is light green, except next to the seeds, where it is slightly tinged yellow and very solid. The flavor is so sweet and luscious that the flesh can be eaten close to the rind.

Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.



Barteldes' Select Strain Rocky Ford Cantaloupe.

## Tom Watson Water Melon

Produces melons 18 to 24 inches long and 10 to 12 inches in diameter and weighing 50 to 60 lbs. The deep red flesh is of excellent flavor; the heart is large but without core. It has a thin rind, but very tough, making it an excellent shipper.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.



Halbert Honey.

## Halbert Honey Water Melon

This new Melon has all the good qualities of Kleckley sweet, and has fruits more even and regular in outline, with a darker, richer colored skin. Vines are very vigorous and set fruits very freely—four and five large melons are frequently seen clustered closely together. It is one of the earliest melons grown, and averages 18 to 20 inches long.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.





RETAIL STORE.

A partial view of our up-to-date Retail Store, showing our display of Fall Bulbs. We have here, every convenience for handling our large trade. We have occupied this building for twenty years.



POULTRY DEPARTMENT.

Here we handle everything for the poultryman. We have the largest poultry-goods house in the West. This also shows part of our implement department, where we have Spray Pumps, Planet Jr. Tools, etc.

## Pea--Unique

Dwarf, hardy, prolific, first early variety of great merit; pods in pairs long pointed, dark green and well filled with peas of fine flavor. One of the best smooth seeded varieties for extra early sowing.

Mrs. J. M. Nelson of Ouray, Colo., writes us that from one 10c package sown in May she began using the peas the first of July, in spite of very late frosts and an altitude of 8,000 feet.

Pkt., 5c;  $\frac{1}{2}$  lb., 15c; lb., 25c.

## Onion--Giant Colombo

This new Onion from Teneriffe is the giant of the family. They average 2 to 4 pounds, under proper culture; straw or light brown color; are very mild and the very best for stuffing. On account of their flavor they are used very much in sausage.

Pkt., 10c;  $\frac{1}{2}$  oz., 35c; oz., 60c;  $\frac{1}{4}$  lb., \$2.00.

## Pepper--New Neapolitan

This new pepper is decidedly the earliest of all large mild peppers. The plants are of a spreading, open branched growth, two and one-half feet in height when full grown, but begin to form fruit when only a few inches in height. Fruit averages four to four and a half inches in circumference at the stem end, and four to four and a half inches long. It is thick meaty and as sweet as an apple.

Pkt., 5c; oz., 30c;  $\frac{1}{4}$  lb., 80c.



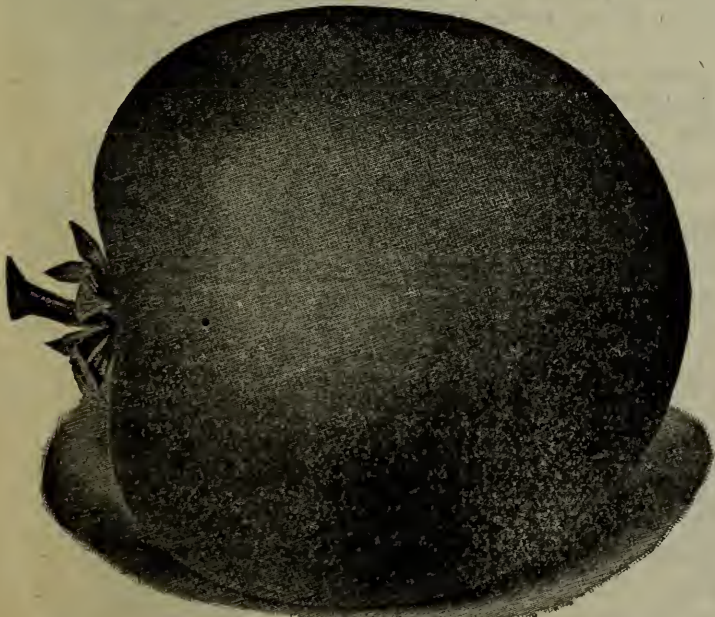
Unique.

## New Coreless Tomato

A large main crop, bright red variety which may soon take the place of all other tomatoes now used for canning and catsup making. It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem when plants are trained to stakes.

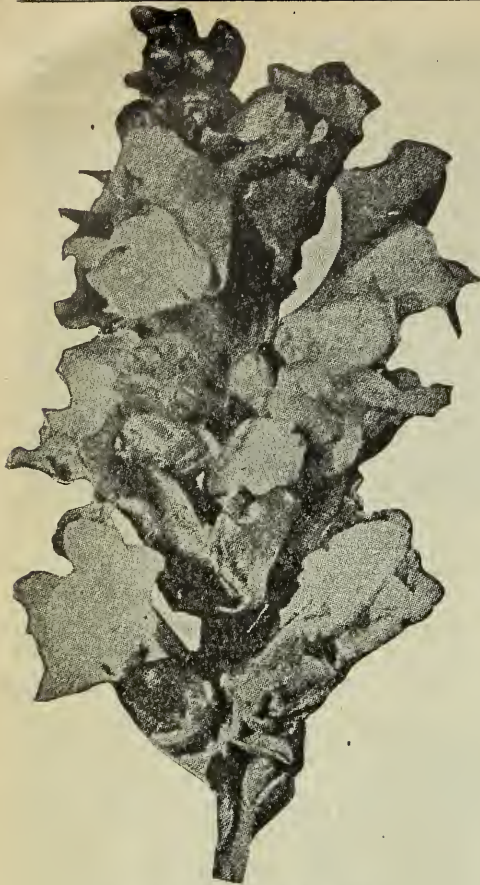
All of the fruits are of a marketable size, almost round in shape, with depression at the stem almost eliminated. The seed cells are surrounded by bright red, heavy, meaty and delicious flesh. It is a very firm fruit and one of the best for long distance shipping.

Pkt., 10c;  $\frac{1}{2}$  oz., 20c; oz., 35c.



New Coreless.





Antirrhinum—Coral—Red.

## New Antirrhinum Coral—Red

The Antirrhinum is now becoming a great favorite as a cut flower on account of its gorgeous display of colors. It blooms freely the first year from seed, and is quite hardy, requiring only a little covering of leaves during winter. It will produce even larger spikes and finer flowers the second season. This new variety reaches a height of 2½ feet and produces a profusion of spikes. The flowers are of the largest size and of a new color, being light red with white throat. **Pkt., 10c.**

## Dahlia—Hornsveld's Giant Hybrids Mixed

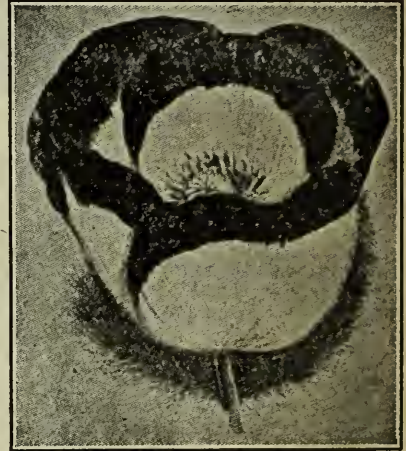
This new variety will be found one of our best cut flowers for summer use. It has magnificent long stemmed, single and semi-double flowers, of immense size and in a great variety of colors. It will bloom freely the first year from seed, but for best results should be started in a box in the house in February and set outdoors when weather is warm.

**Pkt., 15c.**

## Poppy—Empress of China

This beautiful new Poppy produces large single flowers of glistening white, with a small band of scarlet around the top. These two colors form a striking contrast and, when sown in masses, produce a magnificent effect.

**Pkt., 5c.**



Poppy—Empress of China.

## SPECIAL COLLECTIONS—(Postpaid)

As these garden seed collections are put up in advance, we cannot allow any changes. The collections will be sent by mail, postpaid. No packet premium allowed on these collections.

### “QUARTER DOLLAR” SEED COLLECTION

Seven packets of Vegetables of special merit. Price, 25c.

Beans, Full Measure.  
Beet, Crimson Model.

Cabbage, Barteldes' Sure Header.  
Winnigstadt.  
Corn, Golden Bantam.

Onion, Danver's Yellow Globe.  
Pepper, Chinese Giant.  
Radish, Sakurajima (winter.)

### “HALF DOLLAR” SEED COLLECTION

FOR A BACK-YARD GARDEN. FIFTEEN WELL FILLED PACKETS, PRICE 50 CENTS.

For some of our customers, who are living in cities, our ONE DOLLAR COLLECTION may be too large, as most of them have only a small area, back of the house, and they could not use all the different vegetables included in it; so we put up for them our HALF DOLLAR SEED COLLECTION, which comprises most vegetables used daily in a kitchen, and will give general satisfaction.

Beans, Green Podded.  
Beet, Early Blood Turnip.  
Cabbage, All Seasons.  
Carrot, Half Long Chantenay.  
Corn, Extra Early Cory.

Cucumber, Improved White Spine.  
Lettuce, Early Curled Simpson.  
Onion, Colorado Red Globe.  
Parsley, Champion Moss.  
Parsnip, Guernsey.

Peas, Premium Gem.  
Radish, Early Scarlet Turnip.  
Radish, Long Scarlet.  
Turnip, White Flat Dutch.

ONE PACKET MIXED FLOWER SEEDS.

### OUR “DOLLAR” SEED COLLECTION

A COMPLETE FAMILY GARDEN. THIRTY-ONE WELL FILLED PACKETS, PRICE \$1.00

This collection is put up for the accommodation of our customers who are not familiar with the merits of the different varieties. They include, in our estimation, all the best and most suitable varieties for the different climes of our Western country.

If you would buy these packets separately, according to the prices of this catalog, they would cost you \$1.60. It is money well invested.

Beans, Yellow Podded, Golden Wax.  
Beet, Early Blood Turnip.  
Cabbage, Barteldes' Sure Header, Early.  
Cabbage, Late Flat Dutch.  
Cauliflower, Early Paris.  
Celery, Self-Blanching.  
Carrot, ½-Long Danvers.  
Carrot, Early Scarlet Horn.  
Corn, Early White Mexican.  
Cucumber, Long Green.

Lettuce, Denver Market.  
Lettuce, Early Curled Simpson.  
Rocky Ford Cantaloupe.  
Rocky Ford Water Melon.  
Kolb's Gem Water Melon.  
Onion, Yellow Danvers.  
Onion, Large Red Wethersfield.  
Parsley, Triple Curled.  
Parsnips, Hollow Crown.  
Peas, Early Gradus.

Peas, Late Dwarf Telephone.  
Pumpkin, Sugar.  
Radish, Rosy Gem.  
Radish, Glass.  
Radish, Winter China Rose.  
Squash, Summer Crookneck.  
Squash, Winter Hubbard.  
Tomato, Barteldes' Beauty.  
Turnip, White Egg.  
Turnip, Purple Top.

ONE LARGE PACKET MIXED FLOWER SEEDS.



# Standard Vegetable Seeds

We will furnish Garden Seeds, at the prices in the following list, postpaid, except heavy seeds, such as Beans, Peas, Corn, Onion Sets and Field Seeds. For these it will be necessary to add to the remittance 8 to 12 cents per lb. to cover postage. Half lb. sold at lb. rate, except Beans, Peas, Corn and Field Seeds.

## Artichoke

**CULTURE.** Sow in April in rich soil, and transplant the following spring to permanent beds (in rows or hills), three feet apart and two feet between the plants. Green Artichoke gives a partial crop the first season if the plants are started in hot beds in February and March. The beds will remain in bearing for years. Protect in winter by a covering of leaves or coarse manure.

**LARGE GREEN GLOBE.** Produces large, globular heads; scales green shading to purple; best for general use.

Pkt., 5c; oz., 35c; ¼ lb., \$1.00.

**JERUSALEM.** Tubers in season, 10c per lb. For full description and prices in quantities see Field and Farm Seed Department. Pamphlet about Jerusalem Artichokes sent free.

Since Artichoke tubers decay easily we do not guarantee safe arrival of same. We recommend to ship them by express only.

## Asparagus

**CULTURE.** The seed should be sown in March or April just as soon as the ground can be worked, in good, rich mellow soil, in drills one foot apart, then covered from ½ to ¾ inch deep. The following spring the young plants should be set in their permanent places. The soil for them should be made as rich as possible, bearing in mind that the beds are to bear a good many years, and that it is easier to work in a good supply of manure before the plants are set than after. Dig a trench two feet deep, mix plenty manure with the top soil and fill the trench 1½ feet; then lay the plants, being careful to spread the roots, from 1½ to 2 feet apart, and then fill up the trench. The trenches should be from 2 to 4 feet apart. Large fields may be planted by plowing deeply 10 to 14 inches without trenching and plants set 2½ feet in rows 4 to 4½ feet apart, in which case it takes about 4,000 plants to an acre. 1,600 to 2,000 bunches can be harvested on one acre, if in good bearing condition. Asparagus does best in light, well drained soils; they come sooner and send out more shoots than if planted in stiff, heavy soils. One ounce will produce about 600 plants, and it takes about 11,000 plants to cover one acre, if planted 2 feet each way.

For full directions, how to grow asparagus, get our Asparagus book, by Hexamer. Price, 50c.

### EARLY ARGENTEUIL.

It is the earliest big asparagus grown, stalks weighing 3 to 4 ounces. The head is green and slightly pointed and the scales are very closely set. Being a vigorous grower, it is not troubled very much with rust.

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .15	\$ .30	\$1.00

### PALMETTO.

It is of very large size, even and regular in growth and appearance. It is very early, immensely productive, and of the best quality.

.05	.10	.25	.75
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### CONOVER'S COLOSSAL.

The standard variety; of large size, tender and of excellent quality.

.05	.10	.20	.60
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### COLUMBIA MAMMOTH WHITE.

An entirely new and magnificent variety, which is sure to be in great demand, because it furnishes white shoots which stay white as long as fit for use without earthing up or any other artificial blanching, and because it can be absolutely depended on to give 80 to 90 per cent. white plants from seed.

.05	.10	.25	.75
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Roots of above varieties, 20c per dozen, \$1.00 per 100, by express. Prices for larger quantities on application.



Kale—Dwarf German.

## Borecole or Kale

### DWARF GREEN GERMAN.

Sow in the spring for "sprouts" or "greens." Hardy, prolific, flavor similar to cabbage; desirable in every garden.

.05	.10	.30	.....
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### DWARF PURPLE GERMAN.

A variety of the preceding, and identical with it, except in color, which is a beautiful purple.

.05	.15	.40	.....
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### TALL GREEN CURLED OR SCOTCH.

This is one of the most popular varieties. It is very hardy, and is much improved by frost. Two feet high.

.05	.15	.40	.....
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## Broccoli

**CULTURE.** Sow early in spring, transplant and cultivate the same as cabbage. The Broccoli is a species of cauliflower, but more hardy and coarser grained; does best in a cool, moist climate. They will produce heads in October and November, and should any plant not be forward enough for use before frost, let them be removed to a light cellar, where they will head during the winter.

LARGE WHITE MAMMOTH.....	.05	.35	1.00	.....
PURPLE CAPE .....	.05	.35	1.00	.....

## Brussels Sprouts

**CULTURE.** Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring; transplant and manage as winter cabbage.

.05	.25	.75	.....
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Brussels Sprouts.



# BEANS

Add 8 to 12c per lb. for postage.

**CULTURE.** Plant in drills about 2 inches deep and from 18 inches to 2 feet apart, according to the richness of the soil—the poorer the soil, the closer they can be planted; the plants should be about three inches apart. A succession of sowings can be made from the first week in May until in August. One pound to 100 feet of drill; 60 to 80 pounds to an acre.

## Dwarf or Bush--Green Podded Varieties

**BARTELDES' STRINGLESS GREEN POD—See Novelties.**

**EARLY YELLOW SIX WEEKS.** An early snap short variety, producing edible pods 40 days after germination. Very bushy, erect. Pods long, flat, straight .....

Pkt.	½ lb.	Lb.	2 lbs.	10 lbs.
\$.05	\$.10	\$.15	\$.25	\$1.15

### BURPEE'S STRINGLESS.

Extra early, round, fleshy pods; very brittle, almost entirely stringless, rust proof, vigorous, productive and, without doubt, the best green podded beans known .....

.05	.15	.20	.35	1.50
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### FULL MEASURE.

This new, round, green-podded bush bean is the result of a cross between Yosemite Mammoth Wax and Refugee. It is entirely stringless and of excellent quality. The pods are 5 to 6 inches long, round, firm, but tender and remain fit for use many days after maturity .....

.05	.15	.25	.40	1.60
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### GIANT STRINGLESS VALENTINE.

Resembles the Valentine, though the round pods average one-third larger and usually are stringless. Is about a week earlier than the Improved Valentine..

.05	.15	.20	.35	1.40
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### REFUGEE, OR BROWN SPECKLED VALENTINE.

Matures in forty days after germination; pods round, and fine in flavor. Habit of growth, vigorous—requires twice the ordinary room.....

.05	.10	.15	.25	1.15
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**IMPROVED EARLY RED VALENTINE.** Very prolific, round pods.....

.05	.10	.15	.25	1.15
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**DWARF HORTICULTURAL.** Vines compact; pods medium length. One of the best for winter .....

.05	.10	.15	.25	1.15
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**LARGE WHITE MARROW.** It is used shelled, green or dry.....

.05	.10	.15	.25	1.15
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**BROAD WINDSOR, OR HORSE BEAN.** This class is very hardy; used shelled only.....

.05	.10	.15	.25	....
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**CALIFORNIA CREAM BUTTER.** White, very large round seed; growth 24 to 30 inches in height, and of branching habit. The best for winter use.....

.05	.10	.15	.25	1.15
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## Dwarf or Bush--Yellow Podded Varieties

### ROUND PODDED KIDNEY WAX.

Under ordinary culture, this new variety will yield twice as many pods as Wardwell's, while their absolute stringlessness and fine delicate flavor make it by far the most desirable Wax Bean yet introduced. The plants are of erect, bush habit, reaching 18 to 20 inches in height and are almost blight proof. The fleshy pods are about six to seven inches broad and three-eighths of an inch thick; the color is a rich lemon-yellow, a color that will catch the eye.....

.05	.15	.25	.40	1.60
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### WARDWELL'S KIDNEY WAX.

We consider this variety one of the best wax beans. It is earlier than the Golden Wax; pods very large; long, tender, stringless and of a fine light golden color. It grows taller than Golden Wax and out-yields it by far. We recommend it highly, both for private and market garden.....

.05	.15	.20	.35	1.35
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### IMPROVED GOLDEN WAX.

The pods are large, long, half round, brittle and entirely stringless, and of a beautiful rich golden wax color. As a snap bean it excels every other variety in tenderness and rich buttery flavor, while as a shell bean for winter use it has few or no superiors. It is very prolific, of dwarf, compact growth .....

.05	.15	.20	.35	1.35
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### NEW STRINGLESS WHITE WAX.

The pods are 5 to 6 inches long, rather flat in shape, but fleshy, juicy, of a good flavor, bright lemon color and entirely stringless at all stages. They are an enormous cropper and, being white seeded, are equally good for snap or winter bean .....

.05	.15	.20	.35	1.50
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**DAVIS' WHITE WAX.** Immensely productive, bearing large, handsome, straight and almost stringless pods five to six inches in length.....

.05	.15	.20	.35	1.35
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**REFUGEE WAX.** Similar to Green Refugee, but yellow pods

.05	.15	.20	.35	1.35
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**DWARF BLACK WAX.** Known as Butter Beans.....

.05	.15	.20	.35	1.35
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**CHALLENGE DWARF BLACK WAX.** Extra early.....

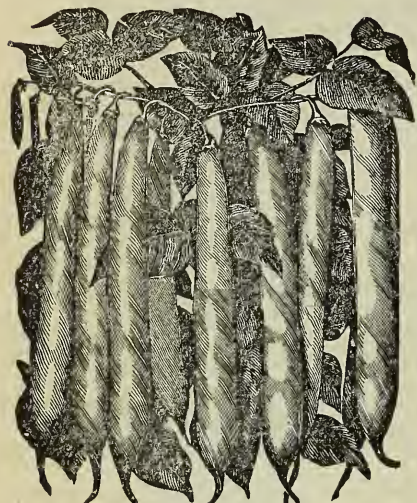
.05	.15	.20	.35	1.35
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**CURRIES RUST-PROOF BLACK WAX.** Hardy and productive; round pods .....

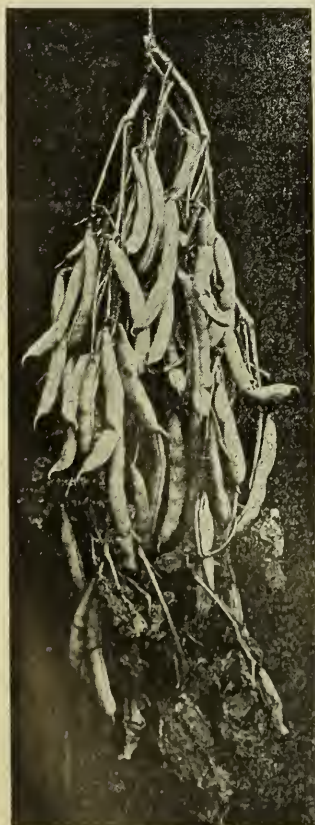
.05	.15	.20	.35	1.35
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**FLAGEOLET WAX.** An early wax variety; long pods.....

.05	.15	.20	.35	1.35
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Burpee's Stringless.



Kidney Wax.



## BEANS—Continued.

## BURPEE'S BUSH LIMA.

It is the true bush form of the old Large Lima Pole Beans. It grows vigorously to a height of 18 to 20 inches, forming a circular bush two to two and a half feet in diameter, yielding from 50 to 100 fine pods similar to those grown on the Large White Pole Lima .....

Pkt.	½ lb.	Lb.	2 lbs.	10 lbs.
\$ .05	\$ .15	\$ .20	\$ .35	\$ 1.50

## HENDERSON'S BUSH LIMA.

The New Bush Lima grows without the aid of stakes or poles, is compact, bush form, from 15 to 18 inches high, and produces enormous crops of delicious Lima Beans. The New Bush Lima is at least two weeks earlier than any of the climbing Limas .....

.05	.15	.20	.35	1.50
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## Bean—Pole or Running

Pole Beans mature very well in Colorado. They should be more extensively grown, as they can be planted with corn, which will furnish the support to climb on.

## LAZY WIFE.

This sort is popular in many localities. As its name indicates, a handful of choice, stringless pods at a single grab. The pods are broad, thick, very fleshy and entirely stringless, and possess a rich, buttery flavor when cooked. The beans are white and make a very good dry bean for winter use.....

.05	.15	.20	.35	1.25
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## EARLY GOLDEN CLUSTER WAX.

The Early Golden Cluster begins to bear in July, and continues until frost; pods are six to eight inches long, borne in clusters of three to six; and are of a beautiful golden yellow color, and the flavor is most delicious. It can be used shelled or as a string bean.....

.05	.15	.20	.35	1.25
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## KENTUCKY WONDER.

Vine vigorous, climbing well and very productive, bearing its pods in large clusters; pods green, very long, often reaching nine or ten inches, nearly round when young and very crisp, becoming very irregular and spongy as the beans ripen.....

.05	.15	.20	.35	1.25
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**LARGE WHITE LIMA OR BUTTER.** Rich and finest flavor, and one of the best of pole beans.....

.05	.15	.20	.35	1.25
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**CAROLINA.** A small variety of Lima, more vigorous in growth, earlier in season and more prolific in pods.....

.05	.15	.20	.35	1.25
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**DUTCH CASE KNIFE.** Pods long, green and flat; can be either snapped or shelled....

.05	.15	.20	.35	1.25
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**HORTICULTURAL OR SPECKLED CRANBERRY.** A showy bean, maturing in 80 days. Pods green, dashed with red; valued either as a snap or for shelling.....

.05	.15	.20	.35	1.25
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**CUT SHORT OR CORN HILL.** An old variety, very popular for planting among corn; pods short, round and tender; beans nearly oblong.....

.05	.15	.20	.35	1.25
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**WHITE CREASE BACK.** Seeds small, oval, very white and hard, but are of very superior quality baked. Round pods.....

.05	.15	.20	.35	1.25
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Burpee's Stringless.

**BURPEE'S STRINGLESS.** This new pole bean is very early and a continuous bearer. The rich dark green pods grow in clusters; they are 6 to 8 inches long, so meaty and so deeply saddle-backed that the width is greater than the thickness from back to front. In the green state the pods are tender, brittle, fleshy and entirely stringless. The dry beans are ½ inch long, and of the purest white color. On account of not being a very tall grower can be grown on bushes.....

.05	.15	.25	.45	1.50
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## Flowering Beans

Very desirable for trellis, or to cover old fences, etc. While the green seeds are edible, the attractiveness is the profuse blossoms.

**SCARLET RUNNER.** The old popular scarlet flower.....

.05	.15	.30	.55	...
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**WHITE RUNNER.** A pure white flower.....

.05	.15	.30	.55	...
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**TRI-COLOR RUNNER.** Pink and white in the same blossom.....

.05	.15	.30	.55	...
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## BARTELDES' CULTURAL GUIDE.

This is a little booklet issued with the intention of helping the Western Seed Planters to secure a fine garden. It tells you in a concise way how to cultivate and take good care of your vegetables, flowers, bulbs, plants and small fruits. It is sent free for the asking with each order.



THE BARTELDES SEED CO., DENVER, COLO.

Brilliant, N. M., Feb. 14, 1912.

My Dear Sirs: Enclosed please find order for following named seeds. I took first prize at Raton's Fair and Stock Show on cabbages and winter radishes; also on sheaf and threshed oats, "New Market" on sheaf and threshed hulless barley. All from your seeds.

On 7 measured acres I threshed 93 bushels per acre of New Market oats, and it is 8,000 feet above sea level. All dry farming—no irrigation.

WM. H. SMITH.



BEETS--For Table Use

**CULTURE.** Beets require a deep, rich, mellow soil, and may be sown from early spring to commencement of summer. Drop about 1 inch deep, in drills 12 to 18 inches apart. One ounce to 100 feet of drill;; 6 to 8 pounds to an acre.

NEW CRIMSON MODEL BEET.

This is indeed a model variety and will be highly appreciated both for forcing or growing outside. It is extremely smooth and symmetrical in shape and of a fine rich blood-red color. It makes a rapid growth, matures early, is almost round in shape and in quality is most excellent, being sweet, tender and free from coarseness. The tops are small, making it a fine variety for forcing in hot bed.....

Pkt.	Oz.	1/4 lb.	Lb.
\$ .05	\$ .15	\$ .50	\$1.75

EXTRA EARLY EGYPTIAN.

An extra early turnip-shaped variety; has small tops and grows quickly. The flesh is in alternate rings of white and deep red.....

.05	.15	.40	1.50
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ECLIPSE.

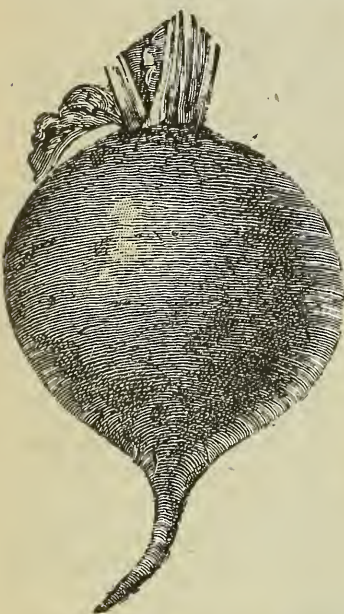
It is nearly as early as Egyptian and much more desirable, owing to its globe shape, great smoothness and regularity, having a small top; very sweet, fine, and dark blood color .....

.05	.15	.40	1.50
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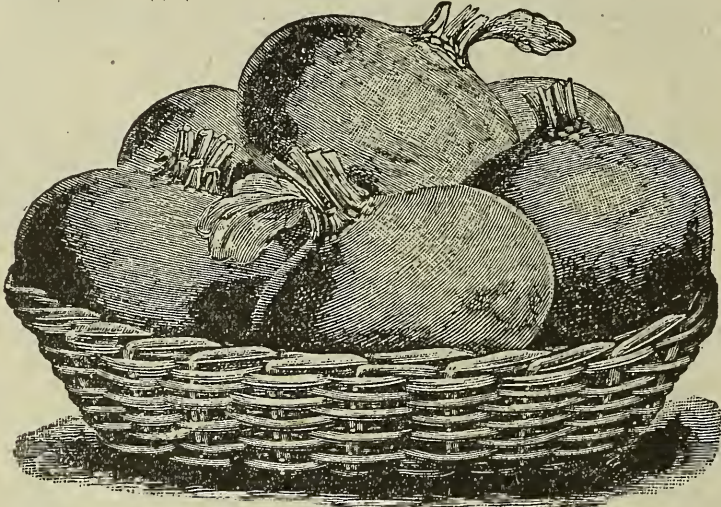
THE LENTZ.

It is as early as the Egyptian, flesh very tender and sweet at all times, whether old or young; very productive, good keeper, and will produce a crop in six weeks from the time of planting the seed.....

.05	.15	.40	1.50
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New Crimson Model.



Early Blood Turnip.



Swiss Chard.

EARLY BLOOD TURNIP.

Here we have the old standby, the turnip beet, with its dark red color, well known to so many home-steads .....

Pkt.	Oz.	1/4 lb.	Lb.
\$ .05	\$ .15	\$ .40	\$1.50

**CROSBY'S EARLY EGYPTIAN.** More globular than the Early Egyptian.....  
**JOHNSON'S DARK LEAVED GLOBE.** Early and of good quality .....

.05	.30	.50	1.75
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**DETROIT DARK RED.** Extremely popular for market and canning .....

.05	.15	.50	1.75
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**EDMOND'S BLOOD TURNIP.** Very early, of handsome round shape .....

.05	.15	.50	1.75
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**HALF LONG BEET.** Yields more than the turnip-rooted varieties .....

.05	.15	.40	1.40
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**LONG BLOOD RED.** An old standard variety, used for table and cattle.....

.05	.15	.40	1.40
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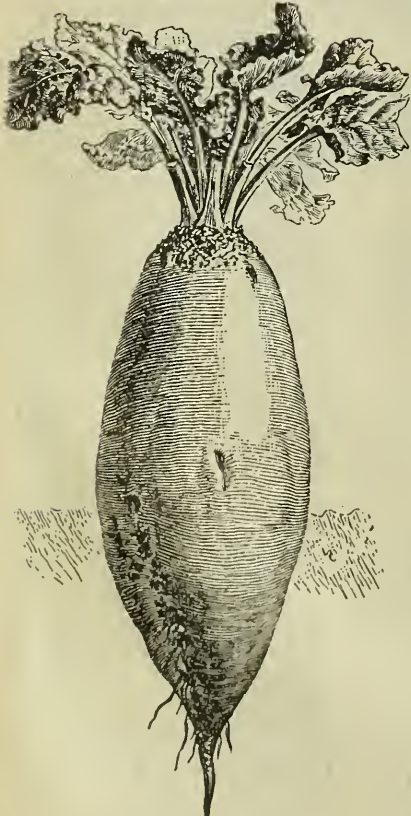
SWISS CHARD OR SILVER BEET.

A distinct vegetable and much superior to the common beets for greens. If sown at the same time, it will be fit to use before them. Later the plants form broad, flat, beautifully white and wax-like stems to the leaves, which are very delicious cooked as beets and asparagus tips or pickled.....

.05	.15	.40	1.40
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**FOLIAGE BEETS.** A species of Chard in various colors .....

.05	.15	.40	1.50
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Golden Tankard.

MANGEL WURZEL AND SUGAR BEET FOR STOCK FEEDING

**CULTURE.** They require a soil plowed deeper and the drills further apart than garden beets. Sow in April or beginning of May in drills from 2 to 3 feet apart, and when 4 or 5 inches high thin to 12 or 18 inches in the row. As soon as frost comes, dig up the roots, cut tops off and pile them about 5 or 6 feet deep on a raised and sloping situation and covering at first with straw or hay and 1 inch of earth. As it gets colder, increase to 5 or 6 inches, by so doing all danger of heating is obviated and the roots keep till next summer. Four or five pounds to one acre.

GOLDEN TANKARD MANGEL WURZEL.

This is undoubtedly one of the most profitable varieties to grow for stock, as it is an enormous cropper, and said to be one of the most nutritious. Mangels in cultivation. Color, bright yellow.....

Pkt.	Oz.	1/4 lb.	Lb.
\$ .05	\$ .10	\$ .20	\$ .65

MAMMOTH LONG RED MANGEL WURZEL.

This is a particularly fine Mangel, growing from one-half to two-thirds above the ground. The roots attain enormous size, smooth and regular in shape....

.05	.10	.20	.70
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**MANGEL WURZEL AND SUGAR BEET—Continued.**

If not prepaid, lb., 50c; 3 lbs., \$1.45; 5 lbs., \$2.25.

**RED GLOBE MANGEL WURZEL.**

A large round variety of excellent quality, productive and a good keeper; color, light red; flesh white; better adapted to shallow soil than the long varieties.

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .20	\$ .60

**YELLOW GLOBE MANGEL WURZEL.**

More delicate than the long red; more easily pulled

.05	.10	.20	.60
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**GIANT FEEDING SUGAR BEET OR HALF SUGAR MANGEL WURZEL.**

This new Sugar Beet gives nearly as large a yield of easily grown and harvested roots as a crop of Mangels, besides being much more succulent than the ordinary Sugar Beet. It grows well above the ground and is easily pulled. Under same cultivation will yield twice more than regular Sugar Beets.

.05	.10	.20	.65
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**RED TOP SUGAR BEET.**

It unites capacity for a large yield with an exceedingly rich flesh, making it the best for cattle feeding. Tops medium sized; roots rather large, growing slightly above the surface; white, washed with red at top; flesh fine grained and very sweet

.05	.10	.20	.65
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**SILESIAN SUGAR.**

This is the old well-known form of sugar beet long raised in this country for feeding.

.05	.10	.20	.65
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**LANE'S IMPERIAL SUGAR.**

This beet will yield almost as much in bulk as the best mangels, and contains a large percentage of sugar. The roots are smooth, broad at the shoulder and gradually taper to the base. They grow with a considerable portion above the soil and are easily harvested. Light green foliage, smooth whitish green skin and crisp, snow-white flesh. Highly recommended by agricultural stations as a stock-feeding beet

.05	.10	.20	.65
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**VILMORIN'S IMPROVED SUGAR.**

A variety out of which much sugar has been made; skin cream color; flesh white; an average of 15 tons per acre can be produced

.05	.10	.20	.65
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**WHITE KLEIN WANZLEBEN SUGAR.**

This variety has proved to be a very valuable sort, not only in foreign countries, but as well in Colorado and other sections of this country, where it has been thoroughly tested. It has a rather long, slender root, very rich in sugar, and grows deeply sunk in the ground, and it is claimed to yield under average conditions about 16 tons to the acre, containing 15 to 16 per cent. of sugar.

.05	.10	.20	.60
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**CHICORY**

**LARGE ROOTED.** A hardy plant, introduced from and much used in Europe as a substitute for coffee. In the fall the roots require to be taken up and cut into small pieces and put where they will dry, requiring the same treatment used for drying apples. When required for use, it should be roasted and ground like coffee. Requires similar treatment to carrots

.05	.15	.40	1.20
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**WITLOOF.** An easy growing crisp winter salad, which can be raised in every home and is known as French Endive. The roots are grown out-doors and planted in earth, in a dark, cool place in the fall. They grow throughout the winter

.10	.25	.60	2.00
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**CHIVES**

The Chives are small and not very important members of the onion tribe, but quite hardy everywhere. The leaves are slender and appear very early in the spring, and may be shorn often during the season. They are propagated by divisions of the root. The Chives make the very best border for beds in the vegetable garden, and are not only ornamental, bearing pink flowers and a mass of green leaves, but equal to the onion for flavoring soups and salads. Pkt., 5c; ¼ oz., 25c; ½ oz., 50c; oz., 90c. Roots, 25c per bunch, postpaid.

**CORN SALAD**

**BROAD LEAVED.** Used as a small salad throughout the winter and spring. Sow thickly in drills; cover slightly first of autumn and sprinkle with straw on the approach of severe winter, or sow in a cold frame, covered in winter as may be convenient—thus is accessible, even when deep snow prevails.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c.

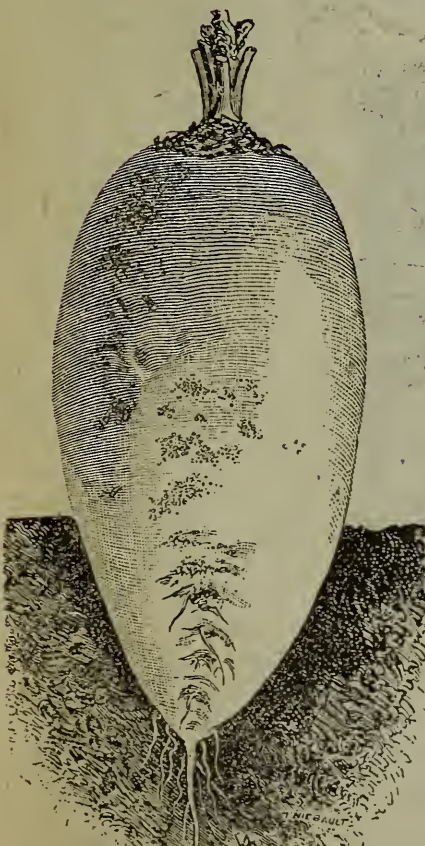
**COLLARDS**

**GEORGIA SOUTHERN OR CREOLE.** This is the variety so extensively used in the South, where it furnishes an abundance of food for both man and beast. Forms a large, loose, open head, or a mass of leaves on a tall stem. Freezing improves the quality.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.



Lane's Imperial Sugar.



Giant Feeding Sugar.



Collards.

Our 8-page pamphlet, "Roots for Stock Feeding," gives full cultural directions how to grow the different kinds of roots best adapted for our Western country; also tells how much to feed. It is free for the asking.



CABBAGE

**CULTURE.** For early cabbages sow the seed in a hot bed, in March or April, covering the seed from ¼ to ½ inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition, transplant outside, in rows 2 feet apart and 15 to 18 inches in the row. The soil should be mellow, rich and well drained. For late crop the seed can be sowed in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in 3 gallons of water sprinkled over the cabbages or cauliflowers will destroy the green worm. The liquid, being clear, does not color the cauliflower or cabbage heads. Fine air-slacked lime or tobacco dust, sifted on the young plants, as soon as the fleas appear on the ground, will prevent them from doing any harm.

One ounce will produce about 2,000 plants. About 16,000 early or 8,000 late cabbages plant one acre.  
**How to Grow Cabbage and Cauliflower, by Lupton.** Price, 30c, postpaid.

Extra Early Varieties--Pointed Head

EXTRA EARLY EXPRESS.

Produces fair sized heads in 80 to 85 days from sowing seed. Does not form as large a head as the "Etampes," but is several days earlier. . . . . Pkt. Oz. ¼ lb. Lb.  
\$ .05 \$ .20 \$ .65 \$2.00

EXTRA EARLY ETAMPES.

One of the earliest cabbages, producing well formed conical heads, remarkably large for so early a ripener. Whoever plants it will be amazed in its early maturity . . . . . .05 .20 .65 2.00



Sure Header Winnigstadt.

BARTELDES' SURE HEADER WINNIGSTADT.



A strain of the well known Winnigstadt Cabbage, but improved by several years' selection of the earliest, hardiest and best formed heads, used for seed raising. Plants are almost sure headers, having produced 98 heads out of 100 plants set. It does well in any soil, but if planted in a rich soil will produce one of the largest heads among pointed head varieties. It is good for early planting or for winter use, its keeping qualities being equal to Danish Ballhead. We recommend it strongly. . . . . .05 .30 .75 2.25

TRUE JERSEY WAKEFIELD.

This is an admirable sort, suited to the family and market garden. The heads begin to mature in the latter end of June to the first of July, and may be cut in succession for several weeks. Our seed is true Long Island grown. . . . . .05 .30 .80 2.50

EARLY YORK.

One of the earliest varieties; not recommended for summer use. . . . . .05 .15 .50 1.50

EARLY WINNIGSTADT.

A well known and very popular early variety; in season very close to the Wakefield; heads large, decidedly conical; leaves bright, glossy green; heads solid and hard, even in summer. This is a very sure heading variety, valuable not only for early use, but also for winter cabbage. . . . . .05 .25 .70 2.00

PE-TSAI OR CHINESE CABBAGE.

This is a valuable addition to the family garden. It is a delicious vegetable, the flavor being a blending of cabbage and turnip. The leaves are long and bleach readily; the plant has a beautiful appearance, but does not make a solid head. Plant 2 feet apart each way in good, rich soil..



Pe-tsal.

.10 .75 ... ..

Early Varieties—Flat Head

EARLY SPRING.

Its great value lies in its being the earliest flat cabbage, a type much preferred over the pointed heads by many. The heads have few outside leaves, and these are small and grow so close to the head that they can be planted very close together . . . . . .05 .30 .75 2.25

ALL-HEAD EARLY.

It is among the earliest of the large cabbages. It is fully one-third larger than the Early Summer. The deep, flat heads are remarkably solid and uniform in color as well as in shape and size. It is very tender and of fine quality..

.05 .30 .75 2.25

.05 .25 .80 2.50



Early Summer.

EARLY SUMMER.

This variety is about five days later than the Wakefield, but being fully double the size it may be classed as one of the best Large Early Cabbages; in weight it is about equal to most of the late varieties, and its short outer leaves enable it to be planted nearly as close as the Wakefield. . . . . .05 .25 .75 2.25

EARLY DWARF FLAT DUTCH.

Has succeeded admirably on account of its ability to resist heat; it never flaws under the severest sun and produces very fine large heads after the earliest sorts have disappeared. We recommend it highly. . . . . .05 .25 .75 2.25



# CABBAGE--Medium Early and Late Varieties

## ALL SEASONS.

One of the earliest of the second early sorts. Heads very large, round, often nearly spherical, but usually somewhat flattened; very solid and of the best quality, keeping as well as the winter sorts. Plant very vigorous and sure heading; leaves large and smooth. Remarkable for its ability to stand the hot sun and dry weather.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .25	\$ .75	\$2.25

### THE GLORY.

The earliest large, solid, round head. The plants are somewhat pale green and make very little outside leaves.....

.10	.30	.85	2.65
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### SCOTT'S CROSS OR GREELEY

#### MARKET CABBAGE.

This cabbage is one of the best for medium early crops. It originated near Greeley, Colo., several years ago and has been improved ever since so now it ranks among the best, if not the best. It is a cross between the Winnigstadt and Flat Dutch, and possesses all the good qualities of both. It is medium early, making a medium to large sized head well flavored. This plant is almost lice-proof and a sure header .....

.10	.70	2.50	8.50
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### ST. LOUIS MARKET.

This fine cabbage is very popular with the kraut makers. It is a very vigorous and hardy plant; the leaves are large and broad, the stem of moderate height; the head is large, white, solid and seldom bursts. It is a medium late variety, coming between the second early and late, and is an excellent keeper.....

.05	.20	.65	2.00
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The Glory.

### Barteldes' Select Danish Ballhead Cabbage

This is without any doubt the finest white cabbage grown. It is an improved strain of the well known Hollander Cabbage. The head is symmetrical, well formed, compact and of a bluish white color. Plants grow to a good size, are short stemmed, forming fine large, round heads of unusual solidity, almost like a stone, keeping in excellent condition as late as June.....

.10	.35	1.00	3.00
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### FOTTLER'S IMPROVED BRUNS- WICK.

This is a good second early variety .....

### SUREHEAD.

Produces large, round, flattened heads. Second early.....

### LATE LARGE DRUMHEAD.

This is a very large fall and winter variety .....

**MARBLEHEAD MAMMOTH DRUMHEAD.** It is without doubt the largest late variety.....



Barteldes' Select Danish Ballhead,

### DANISH BALLHEAD OR HOLLANDER CABBAGE.

This variety, known as Ballhead, has been selected and brought to perfection for more than 50 years by Danish gardeners, who grow it almost exclusively for winter use. Bears shipping well, and keeps far into the spring. Heads round as a ball, extremely solid and fine grained, excellent cooking qualities. Our largest cabbage growers have had best returns from the Hollander. Takes full season to make matured heads. Order the **Genuine Hollander** of us, and don't be fooled into buying so-called Hollander at low prices. We have both long and short stemmed varieties. When ordering quantity state which is wanted.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .30	\$ .85	\$ 2.75

### PREMIUM LATE FLAT DUTCH.

As a variety for winter it has no superior. Heads large, bluish green, round, solid, broad and flat on top, and often tinted with reddish brown after being touched with frost; they open white and crisp, are tender and well flavored. It is a fall and winter variety, and one of the very best to keep. With a good cultivation, on moist, rich ground, 95 in 100 will head up hard and fine .....

**DRUMHEAD SAVOY.** An excellent winter and spring family cabbage .....

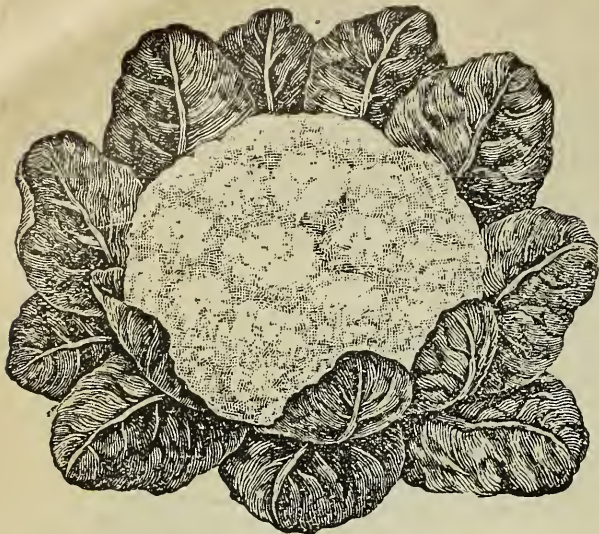
**MAMMOTH ROCK RED.** This is by far the best, largest and surest heading red cabbage.....

.05	.25	.75	2.25
.05	.20	.65	2.00
.05	.20	.65	2.00



Hollander.





Early Danish Snowball.

# CAULIFLOWER

**CULTURE.** The same as for cabbage, except that extra manure and plenty water will pay with cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay or straw it would keep the soil moist, and the plants would not suffer from a drouth. The early kinds should be strong enough to plant out not later than May 1st; the late kinds may be planted out same time as cabbage. To destroy the Cauliflower Maggot, it is recommended to take one ounce of sulphuret of potassium and dissolve it in one gallon of water. Heat the liquid to about 100 degrees, take a large spoon, or something that will hold the one-hundredth part of a gallon, and pour the liquid against the stalk of the plant just above the ground.

One ounce produces 1,500 plants; 15,000 plants will cover one acre.

We grow large quantities of Cauliflower and Cabbage Plants, usually ready through May and June. See back part of catalogue.

For full directions how to grow Cauliflower for profit get our book on Cabbage and Cauliflower, by Lupton, 30c postpaid.

## EARLY DANISH SNOWBALL (Our Special Strain.)

This variety, by innumerable trials, has established the claims made for it. The plants are very dwarf. The outer leaves are erect. The inner ones lap over the head so as to completely shade from the sun. It is a valuable market variety for early and late.

Pkt., 15c; ¼ oz., 75c; oz., \$2.25; ¼ lb., \$7.00.

## EXTRA EARLY DWARF ERFURT—Selected.

This is the choicest selected strain of the popular Erfurt type, and is remarkable for its extreme reliability in heading. Plants very dwarf, with solid, pure white heads of superior quality. Planted in rich soil early in the spring, heads 8 to 10 inches in diameter, can be marketed in July.

Pkt., 15c; ¼ oz., 75c; oz., \$2.25; ¼ lb., \$7.00.

## EARLY PARIS.

A most excellent French variety, and the popular early sort in the Paris markets. Heads large, white, compact and solid, of excellent flavor, tender and delicious. Leaves large, stalk short. Being so early, it must always be a favorite.

Pkt., 5c; ¼ oz., 25c; oz., 80c; ¼ lb., \$2.25.

## BARTELDES LATÉ SNOWBALL OR DRY WEATHER.

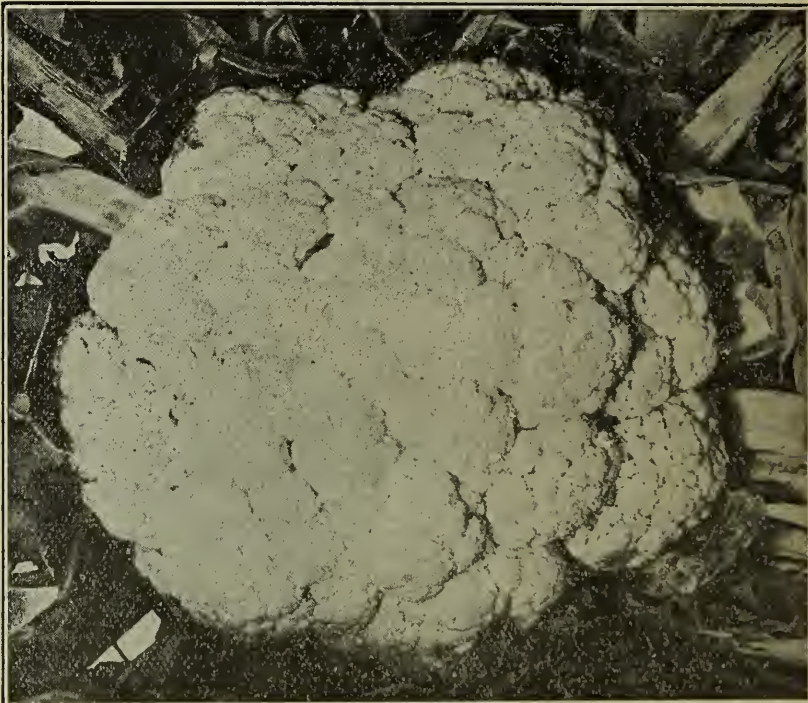
This splendid Cauliflower, introduced by us in 1907 to Western Planters has proven to be a perfect "success." Samples weighing 8 and 11 pounds have been brought to us with the statement that they average 7 pounds in large fields planted with this stock. We feel satisfied that it answers the purpose we have been seeking; that is, to furnish a Cauliflower well adapted to our Western country, for use in summer. Is about 2 weeks later than Danish Snowball. It has a larger head, solid, white and very fine grained. The leaves are large and have a tendency to fold over the head to protect it from the scorching sun of our summer months. It also stands the drouth better than any other Cauliflower grown.

Pkt., 15c; ¼ oz., 75c; oz., \$2.25; ¼ lb., \$7.00.

## VEITCH'S AUTUMN GIANT.

A distinct and valuable late variety. Heads very large, white, firm and compact, and remain for a long time fit for use. The plants should be started and transplanted early in the season to insure their full development.

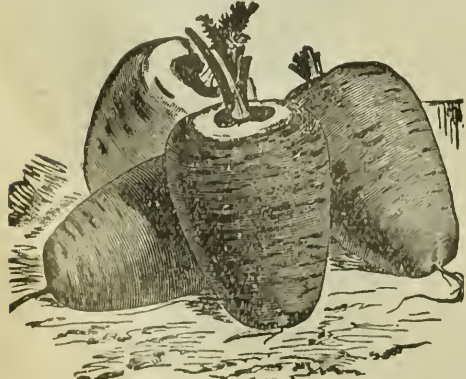
Pkt., 5c; ¼ oz., 25c; oz., 80c; ¼ lb., \$2.25.



Barteldes' Dry Weather Cauliflower.

# CARROT

**CULTURE.** The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in spring as soon as the ground is in good working order; for late crops they may be sown any time until the middle of June. Sow in rows, about 15 inches apart, thinning out to 3 inches between plants. Do not cover more than ½ inch deep. One ounce to 150 feet of drill; 3 pounds to an acre.



Ox Heart.

## EXTRA EARLY SHORT FORCING.

An excellent forcing variety; very tender and fine flavor; small growth.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.25	.60	1.90

## EARLY SCARLET HORN.

A very early variety. Recommended for the market and family garden. Texture fine, and delicate in flavor.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.50	1.75

## OX HEART OR GUERANDE.

This new French carrot is one of the most valuable of all recent introductions, either for family use or market. It is an intermediate between the Half Long and Horn varieties, attaining a diameter of 3 or 4 inches at the neck, and of most beautiful shape and rich orange color. It is of extra fine quality and very productive.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.50	1.75



## CARROT—Continued.

## CHANTENAY.

One of the most perfect and uniform in shape, smooth, heavy yielder, and of fine table qualities. It grows 5 or 6 inches long; is fine in texture and easily dug; the flesh is of a beautiful deep orange, tender and of excellent flavor.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .15	\$ .50	\$ 1.75

## HALF LONG SCARLET NANTES.

Top medium, finely divided; roots medium, cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core; finest quality .....

.05	.15	.50	1.75
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## DANVERS HALF LONG.

Admirable in color, fixed in habit, a wonderful producer, the best of all for the stock breeder, and valuable to the market gardener. With this variety the planter secures the largest return to the acre with the least difficulty of harvesting.....

.05	.15	.50	1.75
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## LONG ORANGE.

The old stand-by, both for table use and for stock feeding for late summer and winter. Fed to milk cows it increases the flow of rich milk and imparts to the butter in winter a fresh flavor, and golden color .....

.05	.15	.50	1.65
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## LARGE WHITE BELGIAN.

Grows one-third out of the ground. Root pure white, green above ground, with small top. It will grow to a very large size on light, rich soil, and is very easily gathered. Flesh rather coarse; is raised exclusively for stock.....

.05	.15	.40	1.40
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## LARGE YELLOW BELGIAN.

Same as above, except in color.....

.05	.15	.40	1.40
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## GIANT AUSTRALIAN.

This is the largest yellow carrot in cultivation, some specimens weighing 12 to 15 pounds, and an average yield is from 30 to 40 tons to an acre.....

.05	.15	.45	1.50
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## CELERY

**CULTURE.** For early celery the seed is sown in February or March, in hot-bed, in drills 4 to 6 inches apart, and covered about ¼ of an inch deep. When fairly out of seed leaf, they are transplanted in another bed, or can be thinned out to 2 or 3 inches in the row and left growing till needed to plant outside. In April they are planted in the field, in rows, 2 to 4 feet apart, and set 6 inches in the row. In planting press the ground around the plants, but be careful not to let the earth get into the heart. The soil should be made very rich and the plants will have to be earthed up three or four times during their growth. The summer varieties, such as Golden Self-Blanching and White Plume, do not need any more care to bleach, but the winter varieties need to be banked up. Celery needs more water than other garden crops, and, if allowed to suffer from want of water, is liable to get soft. For winter use, sow the seed outside in latter part of April or beginning of May, in beds, and transplant, to the field, in July. The rows should be 2 feet apart, if the roots are to be dug out, and put in trenches to bleach or four feet apart if wanted to bleach on the same spot where grown. When cold weather sets in, dig a trench in a high and well drained place, one foot wide and of a depth a few inches less than the height of celery. Set your plants closely in it and cover gradually with straw or hay and earth, as the weather gets colder. The top of the trench should be sloping to allow water to run off. One ounce produces 4,000 plants and it takes about 42,000 plants to set one acre if rows are two feet apart.

**CELERY PLANTS** ready in June and July. See plant list.

Get "Celery for Profit," by T. Greiner, price 20c postpaid, or "Celery Culture," by Beatty, cloth, price 50c postpaid.



## BARTELDES' GOLDEN SELF-BLANCHING.

**IN SEALED PACKAGES**—Seed crop almost a failure.

The plant is of a beautiful appearance, of close habit and compact growth, and straight, vigorous stalks. The ribs are perfectly solid, crisp, brittle, and of delicate flavor, surpassed by no other variety, while it has the deciding merit of being self-blanching to a very remarkable degree. Our stock of this variety is selected with special care in France. It is the strain for market gardeners, also for family garden.

Pkt., 5c; ½ oz., 70c; oz., \$1.25; ¼ lb., \$4.50.

**WHITE PLUME.** This celery is valued because, naturally, the stalks and portions of the inner leaves and heart are white, by simply tying up the stalks and drawing up the soil with the hoe, the work of blanching is completed. It is ornamental, tender, crisp, of good flavor, and very early.....

.05	.35	1.00	3.50
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**GIANT PASCAL IN SEALED PACKAGES.** This is a green leaved variety. It blanches very quickly after earthing up, when it is of a beautiful yellow-white color, very solid and crisp, and of a nutty flavor, which is not equalled by any other sort. The stalks grow broad and thick, a single plant making a large bunch. Under high culture this variety will give the best satisfaction.....

.05	.30	1.00	3.00
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Barteldes' Golden Self-Blanching.

**BOSTON MARKET.** It forms a cluster of heads instead of a single one.....

.05	.15	.50	1.50
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**HALF DWARF.** When blanched it is of a yellowish-white, making it very ornamental.....

.05	.15	.50	1.50
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**GOLDEN HEART.** A very popular and distinct variety.....

.05	.15	.50	1.50
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**LARGE WHITE SOLID.** The most imposing of all varieties though not as delicious as dwarf sorts.....

.05	.15	.50	1.50
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## CELERIAC OR TURNIP ROOTED.

Grown exclusively for its roots, which are turnip shaped, very smooth, tender and marrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad. They are used for seasoning meats and to flavor soups.....

.05	.20	.60	2.00
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CRESS

**GARDEN CURLED OR PEPPERGRASS.** Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

**TRUE WATER CRESS.** Is quite distinct from the Garden Cress, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found.

Pkt., 5c; oz., 30c; ¼ lb., \$1.00.



Garden Cress.

SWEET CORN

**CULTURE.** All varieties of sweet corn may be either sown in rows, 4½ feet apart, and the seeds planted about eight inches in the row, or planted in hills at a distance of three or four feet each way, according to the variety grown or the richness of the soil in which it is planted. Sweet Corn should not be planted deeper than one inch and a half, as it is liable to rot in the ground. Hoe often, drawing the earth against the stems, and break off the side shoots. One pound to 300 hills. Ten pounds to an acre. Twelve to twenty pounds if planted in drills.

New Golden Bantam

THE EARLIEST OF ALL SWEET CORNS.

This new Sweet Corn is described as the tenderest, sweetest and best Sweet Corn in existence. Its attractive yellow color being another good feature added to its many good qualities, makes it an easy seller on the market. The stalks are vigorous and strong, grow about 4 feet high and produce 3 to 4 fine eight-rowed ears 6 to 8 inches long. On account of its firm texture it can be planted earlier than any other variety of Sweet Corn and is less apt to be bothered by insects, on account of its heavy husk.

Pkt.	½ lb.	Lb.	2 lbs.	10 lbs.
\$ .05	\$ .15	\$ .20	\$ .35	\$ 1.40

PEEP O'DAY.

Is not only one of the earliest Sweet Corn, but is very sweet and immensely productive, stalks producing from 2 to 5 large size ears and being dwarf, about 4 feet in height, admits a close planting.

.05	.10	.15	.25	1.20
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WHITE COB CORY.

It is strictly an early kind for market and home use; ears about 7 inches long with milky white kernels, sweet, tender and delicious

.05	.10	.15	.25	1.15
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**MAMMOTH WHITE CORY.** The largest and best extra early Sweet Corn. The ears are 12-rowed and very much larger than White Cob Cory. No other Sweet Corn will find ready sale in a market which is supplied with this splendid variety.

.05	.10	.15	.25	1.15
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**EARLY EVERGREEN.** This corn has all the good qualities of its parent, "Stowell's Evergreen," but matures earlier. Stalks grow from 6 to 7 feet high.

.05	.10	.15	.25	1.15
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**EARLY MINNESOTA.** This is among the earliest of the sugar varieties, and is much esteemed not only because it matures early, but for its excellent qualities as well. Ears rather small, long and pointed.

.05	.10	.15	.25	1.00
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**COUNTRY GENTLEMAN.** The ears are not only of good size, but are produced in great abundance, frequently bearing four good ears, while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly whiteness. But the great merit of the Country Gentleman-corn is its delicious quality, it is without doubt the sweetest and most tender of all sweet corns, and at the same time with ears of good size.

.05	.10	.15	.25	1.20
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**PERRY'S HYBRID.** A very fine medium early variety, and with ears containing 12 to 14 rows of kernels, well filled to the end. The grains are very large and pure white, but the cob is reddish.

.05	.10	.15	.25	1.00
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**STOWELL'S EVERGREEN.** This variety is more largely planted than any other, being the general favorite with canners and market gardeners for late use. It is very productive, the ears are of large size, grains deep, exceptionally tender and sugary, and remains for a long time in an edible condition.

.05	.10	.15	.25	1.00
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**EXTRA EARLY ADAMS.** The earliest corn for table use; not a sugar corn.

.05	.10	.15	.25	.80
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**WHITE MEXICAN.** The sweetest and most desirable for early family use.

.05	.10	.15	.25	1.00
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**BLACK MEXICAN.** Similar to above, except in color of seed.

.05	.10	.15	.25	1.00
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**CROSBY'S EARLY.** Most excellent variety and remarkably early.

.05	.10	.15	.25	1.00
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**EGYPTIAN SUGAR.** It is of vigorous habit, late, good for canning.

.05	.10	.15	.25	1.00
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FOR FIELD CORN SEE FIELD AND FARM SEED DEPARTMENT—PAGE 66.

EGG PLANT

**CULTURE.** Sow in hot-beds very early in the spring; thin them out as soon as big enough to be handled to 3 or 4 inches each way, and transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take 2 or 3 weeks before they get over it. Hoe often and hill up gradually till they blossom. One ounce to 1,500 plants.

EARLY LONG PURPLE.

This is the earliest variety; very hardy and productive; fruit long and of superior quality.

Pkt., 5c; ¼ oz., 10c; oz., 25c; ¼ lb., 75c.

NEW YORK IMPROVED—LARGE, PURPLE SPINELESS.

This variety has about superseded all others both for market and home garden; a favorite in Colorado. Our stock is extra selected direct from the best growers in New Jersey.

Pkt., 5c; ¼ oz., 15c; oz., 40c; ¼ lb., \$1.25.



New York Improved.







Davis Perfect.

**ARLINGTON WHITE SPINE.**

This is a strain so popular about Chicago for growing under glass. It is the "money maker" among cucumbers, being the earliest and most productive. Rich green color throughout its entire length and very straight.....

**EXTRA LONG WHITE SPINE.**

A selected strain of the White Spine. It is very uniform in size and exceedingly early, at the same time makes long growth—10 to 12 inches. The variety for forcing and early market .....

**DAVIS PERFECT.**

One of the best cucumbers grown, both for forcing and outdoors. The plants are so vigorous that they resist the cucumber disease so common among the forcing varieties. The fruit is slim and symmetrical in shape, from 9 to 10 inches long, and of a dark, glossy, green color.....

**EARLY FRAME.**

Of early growth and vigorous, fruit medium size and straight. It is popular for both table use and pickling....

**EARLY RUSSIAN.**

One of the earliest in cultivation, resembles the Early Frame, but is smaller and shorter, being only 4 inches long

**BOSTON PICKLING.**

A distinct variety which has obtained a great degree of popularity in Boston market as a pickle. Medium long; a great producer .....

This is a medium early choice strain of the white spine type with dark green skin. Fruits are large, averaging eight inches, uniform in size and attractive in appearance.....

**KLONDIKE.**

**BARTELDES' SELECT PICKLE.**

An improved strain of Boston Pickling, being more symmetrical in shape, holding longer its green color, and immensely productive. It is the pickle needed for factories and home use.....

**EARLY CLUSTER.**

A very popular early cucumber, producing its fruit in clusters near the root of the plant. Its usual length is about 5 inches; skin prickly; flesh white, seedy, tender and well flavored....

**IMPROVED LONG GREEN.**

Unquestionably, this is the most popular general purpose cucumber in the West. When matured is 9 to 12 inches long, very solid and crisp, and retains its dark green color until nearly ripe. One of the best for small pickles if pickled promptly.....

**SHORT PROLIFIC PICKLING.** A very short variety of the "Frame" type, abundant bearer, highly recommended for pickles, for which it is used extensively in New York state.....

**PARISIAN PICKLE.** A decidedly distinct variety, most suited for making French pickles....

**CHICAGO OR WESTERFIELD PICKLING.** Very popular with Chicago market gardeners....

**COOL AND CRISP.** One of the earliest and most prolific of all pickling cucumbers.....

**NEW EVERBEARING.** It is of small size, very early, enormously productive .....

**WEST INDIA GHERKIN.** Very small, length from 2 to 3 inches .....

**JAPANESE CLIMBING.** It quickly climbs on poles or trellises. Good for eating and pickling..

# CUCUMBER

**CULTURE.**..Drop in hills 4 to 6 feet apart, as soon as the weather becomes settled and warm. Scatter 8 or 10 seeds to a hill and cover half an inch deep, and pat it down with a hoe. Hoe often, and when out of danger of insects, thin to 4 plants to a hill. June and July is the time to sow for pickling. One ounce to 50 hills; two pounds to an acre.

**BARTELDES' EXTRA SELECT WHITE SPINE**—See Novelties.

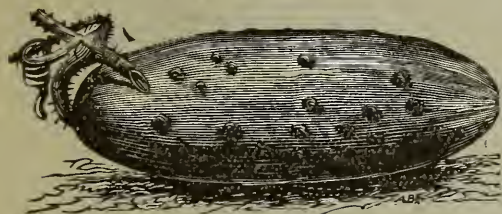
**EARLY WHITE SPINE.**

Vines vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green, with a few white spines; flesh tender and of excellent flavor. In this country this variety is used more, perhaps, than any other for forcing under glass.....



Improved Long Green.

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.30	1.00
.05	.10	.30	1.00
.05	.15	.35	1.15
.05	.10	.30	1.00
.05	.10	.30	1.00
.05	.10	.30	1.00
.05	.10	.30	1.00



Barteldes' Select Pickle.



We shall be pleased to mail any of your friends, who garden, for either pleasure or profit, any of our catalogs. Send us names and addresses, telling us whether to send this Seed Catalog, Bulb List, or Market Gardener's Price List. Your friends will certainly be obliged to you for getting them in connection with a reliable Seed House—The Barteldes Seed Co.





Endive—Green Curled.

## ENDIVE

**CULTURE.** It is the same as lettuce. In order to bleach the green varieties gather all the leaves together and tie them up for a few days. It furnishes an appetizing salad for the fall and winter months.

**GREEN CURLED.** Leaves finely cut or lacinated; bleaches very readily. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**BROAD LEAVED BATAVIAN.** A large summer variety; very productive and one of the best. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**WHITE CURLED.** Does not need blanching. Finely cut and curled leaves, almost white. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

## GARLIC

The Garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Bulbs, lb., 30c; 3 lbs. for 80c; postpaid.

## Kohl-Rabi or Turnip Rooted Cabbage

**CULTURE.** Sow in the spring in rows 18 inches apart; afterwards thin to 8 to 10 inches in the row. The edible part is a turnip-shaped bulb formed by the enlargement of the stem. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy. One ounce produces 2,000 plants.

**EARLY WHITE VIENNA.** The earliest and best for forcing; very tender; excellent for table use.

Pkt., 5c; oz., 20c; ¼ lb., 60c.

**EARLY PURPLE VIENNA.** Same as above, only differs in color.

Pkt., 5c; oz., 20c; ¼ lb., 60c.



Vienna Kohl-Rabi.

## LEEK

**CULTURE.** A hardy species of onion, sown in drills or broadcast. When 6 inches high transplant into rows a foot apart, setting the plants 4 or 5 inches deep and about 6 inches apart in the row. Used mostly in soups and stews. One ounce to 2,000 plants.

### LARGE LONDON OR SCOTCH FLAG.

This Leek, besides being valuable for soups and salads, when blanched makes an excellent dish if sliced and cooked like green peas. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

## LETTUCE

**CULTURE.** The early sowing may be made under glass, in January or February, keeping the plants thin and admitting plenty of air, every fine day. For a succession, outside, sow every two weeks, as soon as the ground is open, in drills one foot apart, covering the seed about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. They do best in a rich and moist soil. One ounce to 3,000 plants.

### Curled or Loose-Leaved Varieties

#### EARLY CURLED SIMPSON.

One of the best early sorts for market or family use; recommended for general cultivation.

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .25	\$ .85

#### EARLY CURLED SILESIAN.

The old favorite; of dwarf, compact habit, and quick growth; crisp, golden leaves with finely curled edges.....

.05	.10	.25	.85
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#### BLACK SEEDED SIMPSON.

The leaves of this variety are very large and form a compact mass rather than a distinct head. Good for forcing or growing outside .....

.05	.10	.25	.85
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#### EARLY PRIZE HEAD.

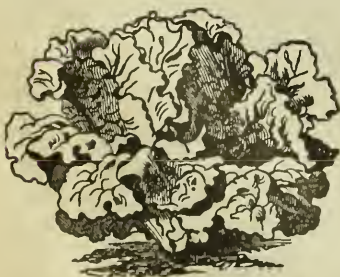
It forms a large, loose head and remains tender and crisp throughout the season; is prompt to head, but slow to seed, and of superior flavor. The leaves are very large, crimped, bright green tinged with brownish red on edge.....

.05	.10	.25	.85
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#### GRAND RAPIDS.

As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and standing for some days after being fit to cut. The plant is upright and forms a loose head or cluster of large, yellowish-green leaves, slightly crimped and blistered and rather thin. It will stand shipping long distances better than most sorts .....

.05	.10	.25	.85
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Lettuce—Curled Simpson.



Leek—Large London or Scotch Flag.



## LETTUCE—Continued.

## Cabbage or Heading Varieties

## BARTELDES' "FRENCH FORCING."

It is very early and sufficiently curly to be attractive, yet makes a reasonably solid head with scarcely any outside leaves. Its solid, upright shape allows of close planting, and less likely of rotting on lower leaves.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .35	\$1.00

## MAY KING—Butterhead.

This new Head Lettuce is the earliest of all the outdoor varieties. It forms a compact, solid head measuring 6 to 8 inches in diameter, with very few outer leaves. The color is light green, the ribs are thin and the flavor is of the best, being entirely exempt from any bitterness, even during the summer. It is very slow to go to seed and can be used for early or late sowing.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.40	1.25



Barteldes' Denver Market.



May King.



## Barteldes' Denver Market

It is an early variety of Head Lettuce, either for forcing or open ground. It forms large, solid heads of a good light green color, and is very slow to seed. The leaves are beautifully blistered, very crisp, tender and of excellent flavor. By these blistered leaves it distinguishes itself from any other kind of lettuce now grown. Buy from us and get the true stock.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.40	1.25

## DENVER MARKET FORCING.

A stock selected expressly for growing under glass .....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.45	1.35

## CALIFORNIA CREAM BUTTER.

Heads large, round, and of a beautiful appearance. The outer leaves are medium green, marked with small brown spots; inner leaves of a rich cream color. Medium early, and makes a good sort for summer use. Quality very good; rich buttery flavor .....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.35	1.00

## EARLY OHIO—SELECTED.

An excellent Head Lettuce for forcing or outdoors. The leaves are light green, blistered, very crisp and tender and of delicious flavor.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.45	1.35

## ALL SEASONS.

This new Lettuce will become the standard summer variety where a solid, nicely blanched "butterhead" lettuce is desired. It makes a large and closely-folded head with the edges of the outer leaves slightly serrated. The heads are broad and nearly flat at the top, measuring 8 to 10 inches across, very solid and stands for a long time before starting to seed. The finely blanched inner leaves are a rich golden yellow, of thick heavy substance, but crisp, tender and mild in flavor.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .15	\$ .40	\$1.25

## IMPROVED BIG BOSTON.

This new variety resembles the well-known Boston Market Lettuce, but produces heads almost double the size and matures a week later. Endures hot weather exceedingly well.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.15	.40	1.25

## EARLY TENNIS BALL.

One of the best varieties of head or cabbage lettuce for growing under glass .....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .35	\$1.00

## EARLY CABBAGE, OR DUTCH BUTTER-HEAD.

One of the best for forcing and also for summer use.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.35	1.00

## HANSON.

The heads are of very large size, deliciously sweet, tender and crisp .....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.35	1.00

## SILVER BALL.

This lettuce produces a beautiful head, very firm, solid and compact, with handsomely curled leaves.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.35	1.00

## PARIS WHITE COS.

The Cos lettuces are distinct from the preceding sorts, in having long, narrow, spoon-shaped leaves, which usually fold into loose, sugar-loaf shaped heads, which blanch better by having the outer leaves drawn about them and tied. On account of their exceeding crispness, tenderness and delicate flavor, they are becoming more and more popular in this country .....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.35	1.00



Improved Big Boston.



Paris White Cos.



MUSK MELON

**CULTURE.** The soil for musk melons must be light, rich and sandy; if grown on a heavy soil the quality will be poor and they will not be so early. When there is no more danger of frost, drop 8 to 10 seeds in hills, 6 feet apart each way, covering about 3/4 inch deep. As soon as plants commence to run, thin out to 3 best plants in a hill and cultivate till the vines cover the whole ground. If slow to fruit, pinch off the ends of the growing shoots. Ash or air-slacked lime, sifted on the young plants while the dew is on, is good to keep the insects out. One ounce will plant about 60 hills, and it takes 2 to 3 pounds to one acre.

Much of the melon seed offered throughout the country is the product of immature and deformed melons, remaining in the field after all the choice fruit has been marketed. We do not sell any but the choicest seed.

Book, "How to Grow Melons for Market." Price, 20c, postpaid.

GREEN FLESH VARIETIES  
THE ROCKY FORD CANTALOUPE.

It is one of the Netted Gem type, oval in shape, averaging from 4 1/2 to 5 inches in length, of a delicious flavor, very fine and smooth grained flesh of a light green color throughout when ripe. It takes its name from the district from which it has been, for the past several years, so extensively grown, Rocky Ford, Colorado, and from which point these melons are shipped by the carload to nearly every station in the United States, till the name of Rocky Ford has become a synonym for excellence in cantaloupes. The seed we offer is our own growing at Rocky Ford, Colorado, and can be relied on for both purity and vitality.....

Pkt.	Oz.	1/2 lb.	Lb.	4 lbs.
\$ .05	\$ .10	\$ .25	\$ .90	\$3.00

Barteldes Select Strain Rocky Ford Cantaloupe



Barteldes' Rocky Ford Cantaloupe.

An improved strain growing more vigorously, ripening more evenly and yielding more than the common strain. A good acquisition among melons.....

.05	.15	.45	1.40	5.25
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ROCKY FORD RUST RESISTING CANTALOUPE.

This new strain of Cantaloupe (**Improved Pollock's Strain**) is the product of several years' careful selection from the strongest and most vigorously growing plants. It is not quite as early as **Barteldes' Select Rocky Ford**, but will yield more.

In comparing the vines and fruits of the common strain with this new strain we found that the melons, hidden under a healthy growth of vines, were larger, more solidly netted with thick, firm flesh, and small seed cavity completely filled with seeds. On the rusted hills, where leaves were very few, the small melons were prematurely matured, the flesh watery and thin and seed cavity open.....

.05	.20	.50	1.60	6.00
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NETTED GEM.

This has become one of the most popular of small or basket melons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet, and highly flavored. We offer an exceptionally fine stock of this sort.....

.05	.10	.25	.90	3.00
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EXTRA EARLY CITRON.

Earlier than any other cantaloupe; large and showy and of fine flavor. This variety will be found profitable by all gardeners, and desirable also in the private garden till others come into condition.....

.05	.10	.25	.90	....
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NETTED NUTMEG.

We consider this one of the best varieties in cultivation for family use. Vines vigorous, hardy, productive; fruit round, slightly flattened at both ends, ribbed, covered with coarse netting; flesh very thick, green and of the highest flavor.....

.05	.10	.25	.90	....
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EXTRA EARLY HACKENSACK.

By careful selection and improvement carried on for some years, this strain has been so developed that it produces melons with all the good qualities of the well known Hackensack Melon, but at least ten days earlier.....

.05	.10	.25	.90	3.00
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THE HACKENSACK.

The most popular variety of musk melon grown for market by gardeners in the vicinity of New York. It attains a large size, is round in shape, flattened at the ends; it is of most delicate flavor, and wonderfully productive.....

MONTREAL MARKET.

This fruit is nearly round, flattened at the ends, deeply and very regularly ribbed; skin green, deeply netted; flesh remarkably thick; light green, melting, and of a delicious flavor. They are very regular in shape, and uniformly grow to a very large size.....

CASSABA OR LARGE PERSIAN.

Long, oval shaped; skin very thin and delicate; flesh extremely tender, rich, sweet and juicy.....



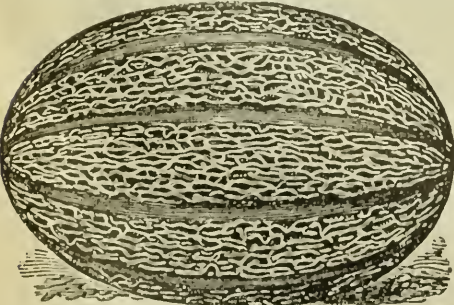
Early Hackensack.

.05	.10	.25	.90	3.00
.05	.10	.25	.90	3.00
.05	.10	.25	.90	....

KHIVA OR WINTER MUSK MELON.

Musk melon for Christmas dinner. Yes, a delicious, sweet musk melon is a rare treat. You can have such, and from your own garden, if you plant **KHIVA**. It is the most delicately flavored winter-keeping melon we have ever eaten. The flesh is white and very thick, 2 or 3 inches deep. The skin is firm, with a grayish green color, slightly mottled. Is of egg-shape, and weighs 12 to 30 lbs. Not real delicious until in November and later. They keep nicely until in January.....

.05	.25	.85	3.00	....
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Khiva or Winter.



# Musk Melon--YELLOW FLESH VARIETIES

## BURRELL GEM.

This new melon is the "ne plus ultra" of yellow flesh musk melons. It is another Colorado product and, like the Rocky Ford Cantaloupe, one that we can be proud of. It has a tough, thin rind, well arched ribs covered with a closely laced and interlaced gray netting. Shape is quite elongated, the diameter from stem to blossom end being one-third more than from top to bottom. Meat reddish orange, very thick, fine grained and spicy; vines vigorous; average weight, 2¼ lbs., and, notwithstanding its thin rind is an ideal shipping melon.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .30	\$1.00

## EMERALD GEM.

Is of medium size; skin, while ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a suffuse salmon color, and ripens to the green rind. It is so very juicy and rich that it almost drops to pieces when dipped out with a spoon. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.....

.05	.10	.30	1.00
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## DEFENDER.

One of the best yellow fleshed sorts. Fruits medium size and oval in shape.....

.05	.10	.30	1.00
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## PAUL ROSE.

A cross of Osage and Netted Gem, among the best of the salmon or red-fleshed sorts. Flesh unusually thick, firm and delicious; well netted and fine for market.....

.05	.10	.30	1.00
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## BANANA.

An entirely distinct variety, bearing longer, slender banana-like fruit. Skin creamy white and entirely free from netting. Flesh deep salmon color, thick and of good quality.....

.05	.15	.35	1.10
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## OSAGE.

The great popularity which this melon has attained is due mainly to its peculiar luscious, spicy flavor, and its perfect shipping qualities. The skin is very thin, of a dark green color, and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely thick and delicious to the rind. It is also very productive.....

.05	.10	.25	.90
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## PEACH MELON OR GARDEN LEMON.

The fruit is about the size of a large peach, oval shaped, and of a bright orange yellow color somewhat russeted. When it first ripens it is quite hard, and has very little flavor, but they soon become mellow, not sweet, and have a rich flavor. For sweet pickles, pies or preserving, they are superb.....

.05	.15	.40	1.25
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# WATER MELON

**CULTURE.** This is the same as for musk melon, except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills; 3 to 4 pounds to an acre.

**Fifteen cents per pound may be deducted when five pounds or more of one variety of Melon is ordered, not prepaid.**

**Be sure to ask for prices if you intend purchasing Melon Seeds in large quantity.**

**HALBERT HONEY—See Novelties.**

**TOM WATSON—See Novelties.**

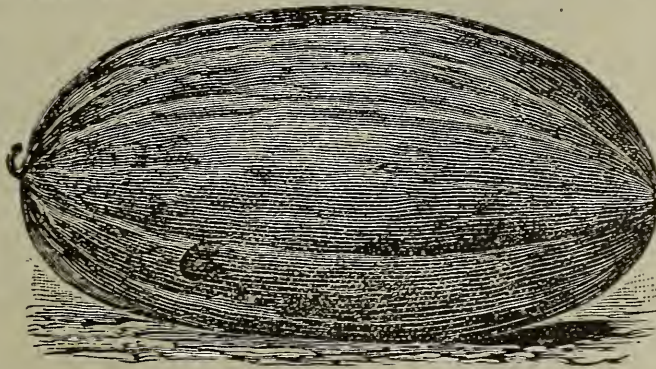
## COLE'S EARLY.

This is an extra early melon, maturing fully a week or more in advance of any other variety. Melons are oval in form, handsomely striped with light and dark green, small, but of good quality and desirable for raising where seasons are short.....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .20	\$ .75

## KLECKLEY'S SWEET, (Monte Cristo Sweet.)

Large oblong melon, 20 inches in diameter, somewhat tapering at the ends. The skin is dark green, flesh bright scarlet, ripening close to the skin; seeds white, lying close to the rind, leaving a large solid heart which does not crack open when ripe. The scarlet flesh is sweet and sugary. The melon is better for home use than for shipping .....



.05	.10	.30	1.00
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Kleckley Sweet.

## PHINNEY'S EARLY.

A very early variety; medium and uniform size. The skin is smooth, with uniform, narrow, white mottled and dark green stripes. Flesh light red or pink, very sweet and delicious..

.05	.10	.20	.70
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## ICE CREAM, OR PEERLESS.

An early delicious melon for home use or home market. It has too thin a rind for shipping. Few, if any, melons surpass this for quality and productiveness. Flesh bright scarlet, solid to center, melting and delicious.....

.05	.10	.25	.75
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## CHILEAN.

A very brittle, thin skinned variety, of the highest merits for home garden. It is slightly oblong; the skin is deep green, striped with still deeper green; the flesh is bright red, juicy and very sweet. It grows to a large size and we recommend it very highly, especially for the southern states .....

.05	.15	.30	.90
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## McIVER'S WONDERFUL SUGAR.

Oblong in shape, attains great size and weight, the rind showing broad stripes of light and dark green; flesh rosy pink, solid and stringless from rind to core. Crisp and delicious.....

.05	.10	.25	.70
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## FLORIDA FAVORITE.

Oblong in shape, growing to a very large size; rind dark with light green stripes; flesh light crimson, crisp and deliciously sweet.....

.05	.10	.25	.75
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## WATERMELON—Continued.

## SWEET-HEART.

A new melon of excellent quality. Vine vigorous, and productive, ripening its fruit early. Fruit large, oval very heavy, uniformly mottled, light and dark green. Rind thin, but firm. Flesh bright red, firm, solid, very tender, melting and sweet. Fruit remains in condition for use longer than any other sort.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	\$.05	\$.10	\$.25	\$.70

## CUBAN QUEEN.

A large and solid variety, rind very thin and strong, skin striped with dark and light green. Vines strong, healthy and of vigorous growth; very heavy cropper, flesh bright red, tender and melting, luscious, crisp and very sugary. It is an excellent keeper, and bears transit well.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## BLACK DIAMOND.

A cross between Kolb's Gem and Hoosier King. Its prominent point of merit is its extreme size. Melons weighing 75 to 90 pounds are frequent. Its color is a rich dark green, almost black, of uniform symmetrical shape, roundish to bluntly oval .....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70



A Patch of Rocky Ford Water Melons.

**PRIDE OF GEORGIA.** One of the best table varieties....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**MOUNTAIN SWEET.** Size large, flavor good, rind thin, dark in color.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**ICEBERG.** Similar to Kolb's Gem, but darker.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**DIXIE.** A cross between Kolb's Gem and Mountain Sweet .....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**KENTUCKY WONDER.** In shape it is oblong; skin dark green, marbled in stripes of light green.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**BLACK SPANISH.** Round, very dark green, with scarlet flesh and black seeds; early .....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**MAMMOTH IRONCLAD.** This variety is one of the largest melons grown .....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**ICING OR ICE RIND.** Fruit of medium size, nearly round.

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

**JONES' JUMBO.** Rind green with light stripes.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## Rocky Ford—Barteldes' Select



This melon is considered one of the best for this climate. The skin is dark green, flesh bright scarlet, ripening close to the skin, the rind being only about one-half inch in thickness. Seeds white, lying close to the rind, leaving a large solid heart which does not crack open when ripe. The scarlet flesh is sweet and sugary and of such texture that it leaves no strings of pulp whatever in eating. It is the best table melon today.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.15	.50	1.50

## ROCKY FORD.

**Ordinary Strain.** Saved from average good specimens.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.30	1.00

## GYPSY OR RATTLESNAKE.

One of the largest of all the varieties of water melon; long, smooth, distinctly striped with light mottled and wavy, dark green, regular stripes. Flesh bright scarlet and very sugary. Thin skinned, but bears carriage well.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## SEMINOLE.

It is extra early, enormously productive, extra large and of most delicious flavor. It is of two distinct colors, gray and light green. The gray color predominates, about one-fourth of the melons being of the light green color. Melons of both colors are found on the same vine..

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## NEW TRIUMPH.

Triumph is a cross between the Duke Jones and Kolb's Gem, having the handsome dark green color of the former, and the fine shipping qualities of the latter, but infinitely superior in flavor, and grows much larger than either, having known to attain a weight of over 100 pounds.

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## KOLB'S GEM.

Vines of medium size, but remarkably vigorous and healthy. Fruit of the largest size, round or slightly oval, marked with irregular mottled stripes of dark and very light green. Flesh bright red extending to within half an inch of the rind; always solid, very firm, a little coarse, but sweet and tender. An excellent keeper and very good for shipping.....

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.70

## KING AND QUEEN.

**Average weight, 25 pounds.** Spherical in shape, ivory shell, pink flesh, seeds black. The most luscious, handsome and valuable winter melon in the world. It is very hardy and does well in any soil which grows melons. The melons have been shipped into this market as late as December.....

## CITRON.

This melon is used for preserving; rind is striped and marbled with light green; flesh white and solid.....

## KANSAS STOCK OR COLORADO PRESERVING MELON.

It is immensely productive. The melons grow to a large size, some of them weighing as high as 60 or 70 pounds. The flesh is firm and solid with only very few seeds. The melons will keep all winter and can be fed to stock the same as turnips and beets. They grow on most any kind of soil, stand dry seasons very well and seem adapted to most climates.....



Kansas Stock.

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.20	.60	1.75

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.30	.90

	Pkt.	Oz.	¼ lb.	Lb.
.....	.05	.10	.25	.80



# MUSHROOM SPAWN



Mushrooms.

**CULTURE.** Mushrooms can be grown any place where the proper temperature, which is from 50 to 63 degrees Fahrenheit, can be maintained, and is moist enough, without being very damp or dripping with water. If the temperature is below 50 or above 63 degrees, it is not safe to try to raise them. Cellars, caves, abandoned mines, and even old sheds may be used. In growing mushrooms, the beds should be made of stable manure, which has been fermented. Obtain fresh horse manure with some of the litter which has been well trampled down, and pile in heaps about 3 feet deep when well pressed down with the fork, and wet it thoroughly. In 5 or 6 days it should be turned over, mixing the cold and hot manure. In another week a second turning will be necessary, and, if dry, water again. If well pressed down and merely moist, there will be no danger of sour fermentation. The compost will be ready to use in 2 or 3 weeks, according to weather. When water cannot be squeezed out from the damp manure, it is in the right condition to be mixed with one-fourth of good loam. Make your beds about 4 feet wide, 18 to 20 inches deep and of any length desired. Press down the manure with a fork and let the beds stand for about a week before spawning, as they are too hot. Cut a brick into 12 pieces, insert them from 1 to 2 inches deep and 8 to 10 inches apart each way. Do not sprinkle unless very dry, as too much water will retard germination. In two weeks examine the beds and, if the spawn is running (which can be known by white thread-like fibres seen in the manure) it is ready to be cased. Casing consists in applying a layer of pure white sand or sandy loam, from 1 to 1½ inches deep, on the surface of the bed. This loam should be carefully screened. Mushrooms should appear in 5 to 10 weeks after spawning and a good bed will bear from 3 to 4 months. In picking mushrooms twist them from the soil and fill the holes left with fresh loam. Sprinkle with lukewarm water, when real dry, and after mushrooms have been gathered. The main causes of failure are: (1) spawning at a too high temperature; (2) the use of too much water; (3) unfavorable temperature during the growing season.

For fuller information, get our book, "Mushroom Culture and Pure Culture Spawn." Price, 35c postpaid.

**PURE CULTURE SPAWN.** 1 brick by mail, 40c; 5 lbs. by express, not prepaid, 80c; 10 lbs. by express, not prepaid, \$1.50. Ask for our leaflet on Pure Culture Spawn, free for asking.

## MUSTARD

### GIANT CURLED OR CHINESE.

Highly esteemed for salads, particularly in the South. The leaves are twice the size of the ordinary white mustard; flavor sweet and pungent.

### OSTRICH PLUME.

The leaves are long, ruffled and curved as gracefully as an ostrich plume. Is especially good as a salad, and as greens is equal to spinach.

### WHITE ENGLISH.

The leaves are light green, mild and tender when young; seed light yellow.

### BROWN OR BLACK.

The common small seeded variety. More pungent than the white.

## NASTURTIUM

The seeds, while young and succulent, are pickled and used as capers. The plants are also highly ornamental; the tall variety makes an excellent screen or covering for unsightly places in the garden. Do not sow until the ground is warm.

### Tall mixed

### Dwarf mixed

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .25	\$ .75
.05	.10	.25	.75
.05	.10	.15	.40
.05	.10	.15	.40
.05	.15	.35	....
.05	.15	.40	....

## OKRA OR GUMBO

**CULTURE.** Sow late in the spring, after the ground has become warm, in drills 3 feet apart, and, when plants are 3 inches high, thin out from 10 to 12 inches. They should be well manured. They also can be started in a hot bed and transplanted afterwards. The young green seed pods of his plant are used in soups, or stewed, and served like asparagus. The young pods can also be dried for winter use. One ounce will plant 80 hills.

### WHITE VELVET.

It is very distinct in appearance, and unlike other varieties, the pods are not ridged, but are perfectly round and smooth, of superior flavor and tenderness. The plants are comparatively dwarf and of compact branching growth; the pods are of extra large size, and produced in great abundance.

### DWARF.

Early, long podded and productive.

### TALL.

Height, 5 feet.



Okra—Dwarf.

.05	.10	.20	.60
.05	.10	.20	.50
.05	.10	.20	.50

## PARSLEY

**CULTURE.** Parsley succeeds best in rich, mellow soil. As the seeds germinate very slowly, 3 or 4 weeks elapse sometimes before it makes its appearance. It should be sown early in spring, previously soaking the seeds for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. One ounce to 150 feet of drill.

### NEW EMERALD.

The plants are of dwarf, compact growth; the leaves are of a handsome, bright green color, very finely crimped and curled; of most ornamental appearance; commands highest price in Denver markets.

Pkt. Oz. ¼ lb. Lb.

\$ .05 \$ .15 \$ .45 \$ 1.50

### CHAMPION MOSS OR TRIPLE CURLED.

The leaves are finely cut and curled and of a dark green color. Extra fine for garnishing and culinary purposes.

.05 .15 .40 1.40

### TURNIP-ROOTED OR HAMBURG.

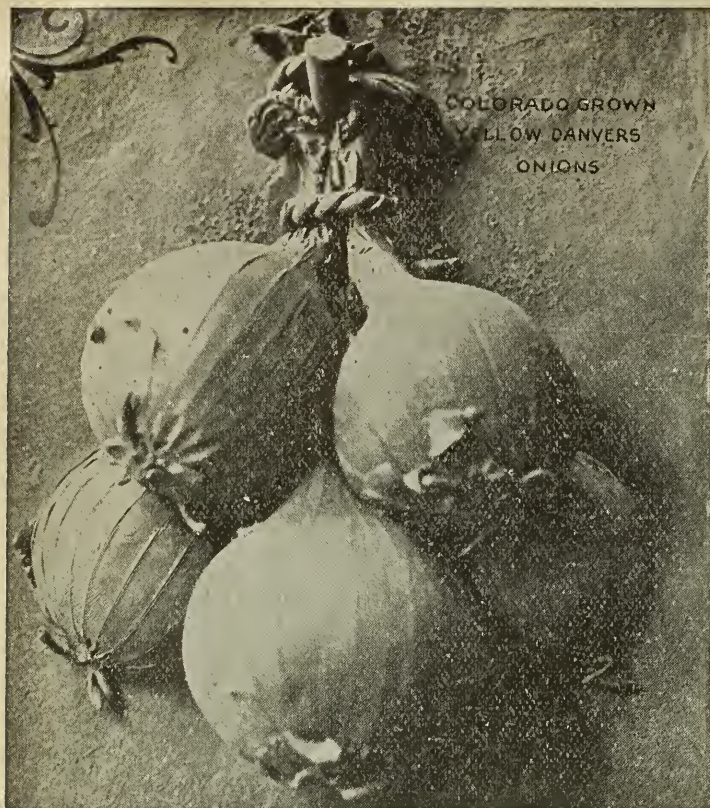
The root is the edible portion and represents a small parsnip in shape and color. Flesh white and flavored like celeriac. Foliage same as plain parsley.

.05 .15 .40 1.40



Parsley—Champion Moss.





Select Colorado Grown Yellow Danvers.

**Select Colorado Grown Yellow Danvers**

Grown from selected bulbs expressly for us in Larimer county. Is acclimated and gives best results.....

**SOUTHPORT YELLOW GLOBE.**

Of the same general character and quality as the Southport Red Globe, except in color...

**OREGON YELLOW DANVERS.**

It is a cross between the flat and the globe, one of the best keepers for our western climate

**YELLOW FLAT DANVERS.**

Same as above, except in shape and a little earlier to mature .....

**PRIZETAKER.**

This new handsome variety is a splendid type of the celebrated Spanish fancy onions, which are annually imported into the United States from Spain. The onions grown here quite rival the imported ones in great beauty and enormous size, weighing in many cases from 3 to 3½ pounds each. The outside skin is of a rich yellow color, while the flesh is white, sweet and mild

**GIGANTIC GIBRALTAR.**

The handsome large bulbs are nearly globular in shape. Thin skin of light straw color, flesh white, tender and mild. The ripened bulbs are very similar to those of Prizetaker, but will make larger bulbs when grown in the South. The leaves are deep green with a glossy surface and withstands dry weather and the attack of insects better than any other onion grown....

**BROWN AUSTRALIAN.**

It is of medium size, wonderfully hard and solid and most attractive for market, both as to form and appearance. They are extremely early in ripening. It has the reputation of keeping indefinitely, and we think from its firmness and hardness that it will keep in good condition longer than any other onion known. Color of skin is a clear amber brown.....

**RED VARIETIES****SELECT COLORADO GROWN RED GLOBE.**

Grown for us and under our Supervisor's care from selected bulbs in Larimer county. Is well acclimated and the earliest red globe onion.

Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00.

**LARGE RED WETHERSFIELD.**

Large deep red, thick, nearly round, fine grained, pleasant flavored and productive. It ripens in September and keeps well.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

**EXTRA EARLY RED FLAT.**

This variety ripens about 10 days earlier than the large Wethersfield and is rather smaller in size, but close grained and heavy.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

**ONION**

We make a specialty of onion seed, and handle it extensively. We grow a large portion of our seeds ourselves and have them grown by experienced growers under our supervision. Our seed is grown from choice selected bulbs and can be relied upon. We make special prices to gardeners and others using large quantities of seed.

5 lb. lots Onion Seed, not prepaid, 15c less per pound.

10 lb. lots Onion Seed, not prepaid, 20c less per pound.

**CULTURE.** Onions thrive best in a rather deep, rich, loamy soil, and unlike most vegetables, succeed well when cultivated on the same ground for successive years. The ground should be deeply trenched and manured the previous autumn, and laid up in ridges during the winter to soften. As early in the spring as the ground is in working order commence operations by leveling the ground with a rake, and tread it firmly; sow thinly in rows 14 to 15 inches apart, 4 pounds to the acre, and a quarter of an inch deep; cover with fine soil and press down with the back of a spade or light roller. When the young plants are strong enough, thin gradually, so that they stand 3 or 4 inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir the soil too deeply or collect it about the growing bulb. When ripe, pull and dry thoroughly before storing. As maggots are the worst enemies of an onion patch, commercial fertilizers are better to use than manure, which originates maggots. Our Vegetable Grower is just the thing. See price in back part of this catalog. One ounce of seed to 150 feet of drill; 4 to 5 pounds to an acre.

Book, "Onions for Profit," by Greiner, postpaid, 30c.

**YELLOW VARIETIES**

**GIANT COLOMBO**—See Novelties.

**YELLOW GLOBE DANVERS.**

A very excellent variety of globular shape; flesh white and mild flavor, skin brownish yellow. It is very productive and a good keeper .....

Pkt.	Oz.	¼ lb.	Lb.
.05	.20	.60	\$1.75

.05 .20 .60 1.75

.05 .20 .60 1.75

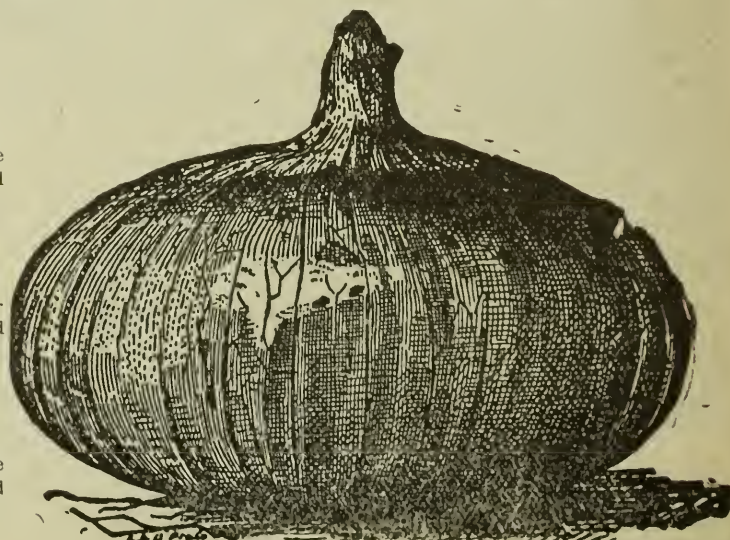
.05 .20 .50 1.60

.05 .15 .50 1.50

.05 .20 .65 2.00

.05 .25 .75 2.25

.05 .20 .60 1.70



Large Red Wethersfield.



ONION—RED VARIETIES—Continued.

SOUTHPORT RED GLOBE.

A large globe-shaped onion, with small neck, rich red color, a splendid keeper and of extra fine quality. It matures a few days later than the Red Wethersfield

	Pkt.	Oz.	¼ lb.	Lb.
.....	\$ .05	\$ .20	\$ .65	\$ 2.00

RED BERMUDA—Imported Seed.

The bulbs of this variety are similar in form and early ripening to the White Bermuda; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Teneriffe grown seed

.....	.05	.35	1.30	...
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WHITE VARIETIES

EXTRA EARLY BARLETTA.

(True French Stock.)—Is fully two or three weeks earlier than the Early White Queen, which heretofore has been the earliest variety in cultivation. They are of pure paper white color, very mild and delicate in flavor, from 1 inch to 1½ inches in diameter and three-fourths of an inch in thickness.

.05	.20	.65	2.00
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EARLY WHITE QUEEN.

Succeeds well everywhere. The bulbs are small, flat, beautifully white and of excellent flavor, but the principal recommendation is the marvelous rapidity of its growth. Sown in February it will produce onions 1 or 2 inches in diameter early in summer. Sown in June they will be ready to pull late in the autumn, will keep sound for one year, retaining to the last their most exquisite flavor....

.05	.20	.65	2.00
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WHITE BERMUDA—Imported Seed.

This valuable onion is especially adapted to the southern states and is the most profitable of all varieties of onions for the grower. Ease of cultivation, large size, mildness of flavor, render it most valuable of all other types. The White Bermuda is a sport from the original Red Bermuda, has not yet become firmly fixed in habit, therefore, the grower will often find "off color" onions among his crop

.05	.40	1.50	...
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White Barletta.

MAMMOTH SILVER KING.

We have imported seed of this truly mammoth variety direct from the originator in Italy. It is of attractive shape with silvery white skin, and flesh of a most agreeable mild flavor. It reaches a larger size than any of the flat white varieties, frequently measuring 20 inches in circumference and weighing 2 to 3 pounds.....



Silver King.

.05	.25	.75	2.25
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SILVER SKIN.

Sometimes known as the White Portugal. A mild, pleasant flavored variety, admirable for family use; not so good a keeper as the dark-skinned varieties

.05	.30	.85	2.75
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SOUTHPORT WHITE GLOBE.

Yields abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of fine flavor.....

.05	.25	.80	2.50
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EL PASO.

A new variety from Mexico. It grows there to a diameter of 6 inches, weighing two-thirds of a pound, flavored very mildly. Our seed of this variety comes direct from Mexico, bought from growers. Skin of the onion generally white, but sometimes mixed with red and yellow.....

.05	.25	.75	2.50
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LARGE WHITE LISBON.

Globular shaped, grows to a large size, pure white and very mild. As it is late to mature, should be sowed early in the spring. It is used very much by our market gardeners for sowing in August, wintered over and bunched-up in the early spring for green onions....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .25	\$ .65	\$ 2.00

GIANT WHITE ITALIAN TRIPOLI.

A large, beautiful pure white flat onion of mild, excellent flavor. Will produce a somewhat larger onion from seed than our Silver Skin, but to attain their full size the plants should be started very early in a hot-bed and set out in rich soil.....

.05	.20	.60	1.75
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White Lisbon (Bunching).

The Barteldes Seed Co.,  
Denver, Colo.

Dear Sirs:

Please find enclosed check for \$4.80 for which send the 3 different orders to the different places specified.

I was about the only one in this vicinity that had nice ripe tomatoes last summer. I think I owe it to your good seeds as much as anything.

Hoping that you will get these orders in good time, I am yours respectfully,

R. MATHWIG,  
Spearfield, S. D.



# ONION SETS

Prices given are subject to market fluctuations. When you want large quantities ask for market prices. Thirty-two pounds constitute a bushel, except the Top or Button Sets, which are 28 pounds for a bushel. When wanted by mail, add 10c per quart.

**RED BOTTOM.** Produced by sowing thickly the seed. They mature under this method when about half an inch through.

Qt., 20c; ¼ bu., \$1.00; bu., \$3.50.

**YELLOW BOTTOM.** Identical with the preceding, except in color.

Qt., 20c; ¼ bu., \$1.00; bu., \$3.25.

**WHITE BOTTOM.** They do not keep as well as the red or yellow, but produce beautiful white onions early in the season.

Qt., 25c; ¼ bu., \$1.35; bu., \$4.00.

**SHALLOTS.** Used extensively in Germany. Valuable for an early crop. They grow in clusters, very productive, of very mild and sweet flavor.

Qt., 25c; ¼ bu., \$1.40; bu., \$4.50.

**TOP OR BUTTON.** Produces no seed, but instead a number of small bulbs or onions about the size of an acorn, on the top of the stalk. The little bulbs are used instead of seed, and will produce a large onion, maturing much earlier

than from seed. The large onion produces the top onion, and the little top onion produces the larger onion.

Qt., 25c; ¼ bu., \$1.35; bu., \$4.00.

**WHITE MULTIPLIER ONION SETS.** These are of a pure white color, enormously productive, frequently producing as many as 20 bulbs in a single cluster from a single bulb planted, of excellent quality and size for bunching green or can be ripened for use as pickling onions, and for this latter purpose can be grown much more economically than from seed. Their most important quality is extreme earliness, being ready for market from 3 to 4 weeks ahead of other onion sets.

Qt., 25c; ¼ bu., \$1.40; bu., \$4.50.

**POTATO ONION.** Produces a quantity of young bulbs on the parent root, which should be planted early in spring in rows 18 inches apart, 6 inches apart in the row, and covered one inch deep. They should be earthed up like potatoes as they continue to grow.

Qt., 25c; ¼ bu., \$1.40; bu., \$4.50.

## PARSNIP

**CULTURE.** They do best in deep, rich, sandy soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible; cover ½ inch deep, and press the soil firmly over the seed; give frequent cultivation, and thin the plants 6 or 8 to the foot. As they are improved by frost a part of the crop should be left in the ground for spring use. One ounce will sow 150 feet of drill; 5 pounds one acre.

### SUGAR OR HOLLOW CROWNED.

The best for table use; a vegetable of merit, easily raised, and of great productiveness.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 70c.

### GUERNSEY.

Roots comparatively short, ending somewhat abruptly with a small tap root; grows with a cavity on the top or crown of the root.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 70c.

### MAGNUM BONUM.

A very fine and greatly improved strain of the Hollow Crown, which we can recommend to all marketmen as a money maker. The roots smooth, not so long as those of the standard sort, somewhat thicker in diameter and much more easily pulled. A very heavy cropper.

Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 90c.

## PEAS

**CULTURE.** Peas do best in a sandy soil, not too rich, or they will run up to vines. The smooth kinds can be sown as soon as the ground can be worked, but the wrinkled varieties should not be planted till it is warmer or they will rot. Sow in single or double rows from 1½ to 3 feet apart, dropping a pea every inch, and covering from 2 to 3 inches deep. For a succession, sow every 10 days up to July. Pea seeds are, some years, full of small holes, caused by an insect called Pea Weevil. The holes will not prevent the seeds from growing, as the germ is not destroyed. One pound to 50 feet of drill; 90 to 120 pounds to an acre.

When ordering Peas to be forwarded by mail be sure to add postage at the rate of 8c per pound.

Ask for prices on larger quantities.

Varieties marked with (\*) are wrinkled.

## EARLY SORTS

UNIQUE—See Novelties.

### ALASKA.

A variety of remarkable earliness and hardness. It is a good yielder and produces pods of good size and dark green color, which are well filled with round, smooth peas of splendid flavor. Height, 2 feet. The color of the dried pea is green. It ripens evenly; one picking will nearly clean off the crop.

### FIRST AND BEST.

This is a reliable early cropper of the hardy smooth-seed variety. Not quite as early as Alaska. Height, 2½ feet.

### \*PROSPERITY, OR GRADUS.

This remarkable Pea is not only large and of the best quality, but is quite as early as the small, round, extra early. It is hardy and may be planted as soon as the ground is fit to work in the spring, along with smooth Peas. The pods are of bright green color, and measure 4 inches or more in length, being as large as a Telephone and equally well filled with luscious Peas—8 to 10 in a pod; vine growing about 30 inches high. The Peas are of first-class table quality and retain their color and attractive appearance after cooking. Height, 2¼ feet.

### TOM THUMB.

Vine bushy, growing to a height of 10 inches, foliage heavy; productive; ready to use in 35 days after sprouting. Height, 10 inches.

### \*NOTT'S EXCELSIOR.

Robust and vigorous in growth, inclined to throw out laterals from the base of the stock, producing in profusion long handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific with larger pods and more peas. Height, 12 inches.

### \*AMERICAN WONDER.

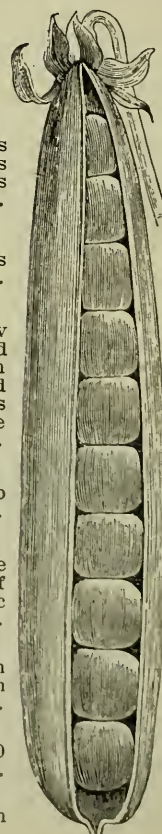
The vine grows 8 to 10 inches high, and is very prolific in pods of striking form and size. In maturity it is among the earliest of the green wrinkled sorts, ripening in about 50 days from germination. Height, 10 inches.

### \*MCCLEAN'S LITTLE GEM.

A good standard sort; early, productive and of good flavor, growing from 18 to 20 inches high.

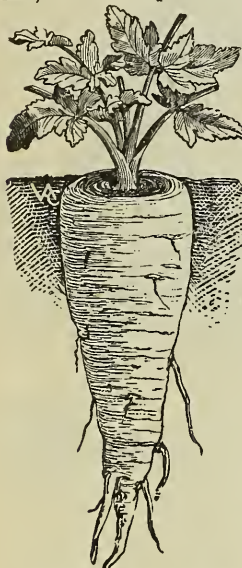
### \*PREMIUM GEM.

An improvement on the Little Gem, being larger and more productive; early in maturing; very luscious in flavor; highly recommended; try it. Height, 1½ feet.



Pkt.	½ lb.	Lb.
\$ .05	\$ .15	\$ .20
.05	.15	.20
.05	.20	.30
.05	.15	.25
.05	.15	.25
.05	.15	.25
.05	.15	.25
.05	.15	.25

Gradus.



Hollow Crowned.



# PEAS--SECOND EARLY SORTS

## \*DWARF TELEPHONE.

Grows from 20 to 24 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods containing from 8 to 10 peas. It is one of the best for second early and, on account of its nice appearance, brings the highest price on the market. Must be sown further apart than other peas. Height, 2 feet.....

Pkt.	½ lb.	Lb.
\$ .05	\$ .15	\$ .25

## \*DWARF CHAMPION.

In this we have the type of Champion of England Peas, with all the good qualities of its parent. It grows 2½ feet high and the plants are loaded with pods 3 inches in length, round and well filled to the end with peas of unsurpassed flavor. It bears the longest of any peas, being in that respect as good as Champion of England. Height, 2½ feet.....

.05	.15	.25
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## \*TELEPHONE.

This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It is immensely productive, of the finest quality and excellent sugary flavor; vine very strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with 6 or 8 large, delicious peas. Height, 4½ feet.....

.05	.15	.25
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\*EVERBEARING. For a continuance of bearing this variety is unexcelled. Height, 2½ feet.....

.05	.15	.25
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\*STRATAGEM. Seeds green, wrinkled; middle crop; one of the best peas ever sent out. Height, 2 feet.....

.05	.15	.25
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\*PRIDE OF THE MARKET. It grows from 18 inches to 2 feet high and bears grand pods, well filled with large and well flavored peas from top to bottom of the haulm. Height, 1½ feet..

.05	.15	.25
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\*HORSFORD'S MARKET GARDEN. The vine of this variety is of medium height, giving the greatest number of pods of any on our list. Height, 2 feet.....

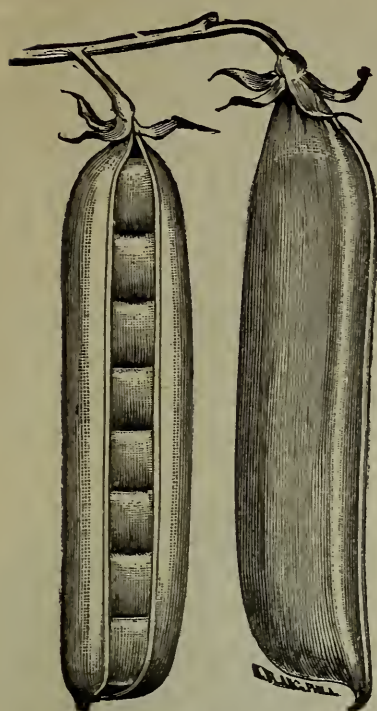
.05	.15	.25
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\*YORKSHIRE HERO. A wrinkled variety, maturing after the Premium Gem, but stronger in habit. Height, 3 feet.....

.05	.15	.25
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GRAY SUGAR. Edible Pods. The most desirable of all edible pod peas. The pods are flat and crooked, and contain 5 to 6 peas. Height, 1½ feet.....

.05	.15	.25
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Telephone.

\*CHAMPION OF ENGLAND. Superior to the common Marrowfat, which it resembles in strength of vine and general habit; wrinkled and very sugary; requires sticking; ripens for table use in 70 days after germination. Height, 5 feet.....

.05	.15	.20
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WHITE MARROWFAT. A strong, productive variety, requiring much space; not recommended for garden purposes, unless brushwood can be obtained. Height, 4 feet.....

.05	....	.15
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BLACK EYE MARROWFAT. Very similar to the White Marrowfat, except the black eye in the seed. Height, 3½ feet.....

.05	....	.15
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# PEPPER

**CULTURE.** Pepper should be started in a hot-bed, in February or March, and not planted outside till the ground is warm and there is no danger of frost. Set the plants in rows 2 feet apart and 18 inches in the row. Hoe often and keep the weeds down. One ounce produces about 1,500 plants.

## RUBY KING.

Fruits are 6 to 7 inches long by about 4 inches through, of a bright red color. They are remarkably mild and pleasant in flavor, and can be sliced and eaten with vinegar like tomatoes. One of the best for making mangoes.....

Pkt.	Oz.	¼ lb.
\$ .05	\$ .25	\$ .70

## MONSTROUS MAMMOTH.

Of cylindrical form, 6 inches long by 2½ inches in diameter. When ripe the fruit is of a beautiful coral red, sweet and thick flesh.....

.05	.25	.70
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## NEW NEAPOLITAN.

This new pepper is decidedly the earliest of all large mild peppers. The plants are of a spreading, open branched growth, two and one-half feet in height when full grown, but begin to form fruit when only a few inches in height. They average four to four and a half inches in circumference at the stem end, and four to four and a half inches long. They are thick meated and as sweet as an apple .....

.05	.30	.80
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Ruby King.

## LARGE SWEET SPANISH.

(Bell shaped.) A very large sort, of square form, mild, thick and suitable for filling with cabbage, etc., and for a mixed pickle; less pungent than most other sorts; notwithstanding its size it is one of the earliest varieties.....

Pkt.	Oz.	¼ lb.
\$ .05	\$ .25	\$ .70

## CHINESE GIANT.

One of the very best and largest Mango Peppers ever introduced. Its mammoth size, splendid shape, beautiful rich glossy-red color and mild flavor, all lead us to recommend it very highly. Its strong, bushy plants are literally loaded with large fruits, which are produced throughout the season, and ripen almost as early as the well known Ruby King.....

.10	.40	1.20
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## PROCOPP'S GIANT.

This new variety may be justly called the Goliath of the pepper family. They grow uniformly of a very large size. They are of a brilliant scarlet color, flesh fully ½ inch in thickness. In flavor they are just hot enough to be pleasant to the taste.....

.05	.25	.70
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## PEPPER—Continued.

## GOLDEN DAWN.

In shape it resembles the popular Bell or Bull Nose pepper. It is of a most beautiful golden yellow color, making a very handsome appearance, both in growth and upon the table.....

Pkt.	Oz.	¼ lb.
\$ .05	\$ .25	\$ .70

## CELESTIAL.

It is not only a useful pepper, but one of the most beautiful plants in existence. The plant begins to set in peppers early in the season, and continues until frost, branching freely and bearing profusely. The peppers up to the time they are full grown are a delicate creamy-yellow color, and when full grown change to an intense vivid scarlet.....

.05	.25	.80
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## LONG RED CAYENNE.

Fruit brilliant coral red; conical, from 2 to 3 inches in length, from ¾ to 1 inch in diameter; very pungent.....

.05	.25	.70
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## RED CHILI. (True Mexico Grown Seed.)

This is slightly larger in growth than the Red Cayenne, with larger fruits, three inches in length and an inch in diameter. Bright red, very hot and fiery. Ripens early. Makes the famous Mexican Chili .....

.05	.25	.70
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## POTATOES

**CULTURE.** Potatoes can be grown in any soil, provided it is well drained, but, if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop. The seed should always be under the sod and not on top of it. It is best to put the manure on one year before the potatoes are to be planted, and in no case raw stable manure should be used, as it is liable to give the scab. In cutting potatoes for planting, do not cut the pieces too small and be sure to have 1 to 3 eyes on them, according to the kind. The constant use of very small tubers should be avoided, or they are likely to run out. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows. They should be cultivated 2 or 3 times before they are six inches high, to keep down the weeds. It is not a good plan to hill up potatoes and it should not be done unless they are pushing out of the ground. If planted 1½ feet by 3 feet there will be about 9,700 hills on one acre, and it will take between 600 and 700 pounds, according to the size of the sets, to plant it. At 3 by 3 feet one-half the quantity is needed.

Prices, 1 lb., 10c; 2 lbs., 15c; 4 lbs., 25c.

If wanted by mail, add 15c per pound to pay postage. We use extra packing for mail shipments.

When large lots are wanted write for prices, stating varieties and quantities desired. When ordering, please state whether or not we shall substitute any other varieties, in case varieties wanted are exhausted.

All our seed potatoes are grown by experienced men who make a specialty of potatoes for seed. You can depend upon our stock.

"Potatoes for Profit," a book giving full directions how to grow them; price, 20 cents.

## EARLY PINK OHIO.

The standard among early varieties. Oblong shape, pink skin, shallow eyes. Can be marketed before fully matured.

## EARLY WHITE OHIO.

There is a great demand in many markets for a white potato and in this we have the genuine early Ohio identical with the old variety in every way except in the improved color.

## YELLOW SIX WEEKS.

The earliest variety for this Western country. It is a good cropper, oblong in shape and has shallow eyes.

## RUSSET, OR NETTED BURBANK.

Since Introduced Has Been Named Netted Gem.

A real acquisition against scab. Vines very robust; tubers medium long, smooth, with shallow eyes and netted skin, flesh very white and floury; they bake quickly. They are absolutely scab proof even if planted in infected soil. They generally set 8 to 10 large tubers to each plant and require a rich soil to produce their usual heavy tonnage. They mature for main crop and are giant cropper. Grown around Carbondale and much liked. In south Idaho they produce the heaviest crop.

## WHITE BURBANK.

Similar to the Russett Except in Color.

## RURAL NEW YORKER.

This is a large, white potato, a fine cropper and of the best quality. They grow to a large size, smooth, oblong, inclining to round and rather flattened, very solid, good keepers, and the vigorous growth of the plant enables them to withstand disease to a remarkable extent.

## PEACHBLOW, Or Improved Red McClure.

Moderate and uniform in size with eyes nearly flush with the surface, dry and tough skinned. When either boiled or baked is dry, mealy and of very good flavor.

## MAMMOTH PEARL.

One of the best for main crop. White skinned, shallow eyes, white flesh, late but of good quality.

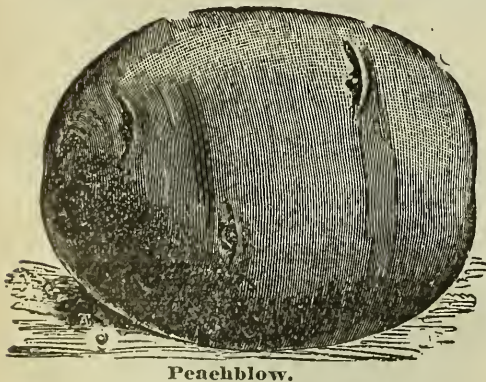
## ROSE SEEDLING.

This is the potato that is famous about Greeley, and is now known in nearly all potato markets as "Colorado Red," "Greeley Seedling," etc. It is our standard for general crop. Our stock is selected for purity.

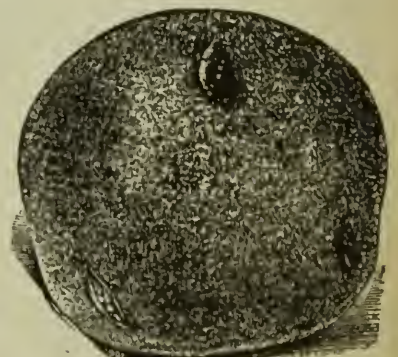
We have fertilizers especially suited to potato culture. Ask for particulars. Humphrey's Concave Potato Knife is just the thing to cut potato sets with; 30c, 3 for 75c, postpaid.



Long Red Cayenne.



Peachblow.



Rural New Yorker.



# SWEET POTATOES

**CULTURE.** Sweet potatoes should be started in a hot-bed. When the ground is warm and danger of frost past, the shoots are lifted carefully and planted in rows 4 feet apart and 2 feet in the row. They need considerable care till well started, but afterwards will grow easily. They should be cultivated quite often, moving the vines to protect them from rooting at the joints. They must be harvested before frost. One bushel of seed will produce 1,800 to 2,000 sprouts.

To insure prompt filling of orders for Sweet Potatoes, they must be engaged ahead. Standard weight of Sweet Potatoes, 50 pounds per bushel; 125 pounds net per barrel.

Buyers will please note that owing to the tenderness of Sweet Potatoes, we do not guarantee the safe arrival of Sweet Potato Seed or Plants; however, we use all precaution possible in packing and time of shipping. Sweet Potatoes should not be mailed.

**YELLOW NANSEMOND.** Standard variety for main crop. The best for short season localities. Ten lbs., 75c; 25 lbs., \$1.50.

**YELLOW JERSEY.** Similar to the preceding, only shorter and thicker in size. Ten lbs., 75c; 25 lbs., \$1.50.

## Sweet Potato Plants

Ready May 15 until in July.

If wanted by mail, postage should be added; 15c for 50; 25c for 100 plants. Will make a special rate on large lots. We positively will not accept orders for long distance shipping of Sweet Potato seed or plants, excepting at purchaser's risk.

	Per 50	Per 100	Per 1,000		Per 50	Per 100	Per 1,000
Yellow Nansemond .....	25c	40c	\$3.50	Yellow Jersey .....	25c	40c	\$3.50

## PUMPKIN

**Culture.** Pumpkins are now principally cultivated for agricultural purposes. They are usually planted in fields of corn or potatoes, but may be profitably raised in fields by themselves. Sow first of May, in hills 8 feet apart. One ounce to 30 hills; 4 pounds to an acre.

### SUGAR OR PIE PUMPKIN.

Smaller than the field pumpkin, but finer grained, sweeter, and very prolific; first rate for the table or stock.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 80c.

### TENNESSEE SWEET POTATO.

A good variety for making pies and other cooking purposes. It is of medium size, of a white creamy color, and has an excellent flavor; good keeper.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

### JAPANESE PIE.

The flesh is very thick, nearly solid, the seed cavity being very small in one end of the pumpkin; fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. They ripen early, keep well, and produce largely. The seeds are peculiarly marked, and sculptured like Japanese characters.

Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

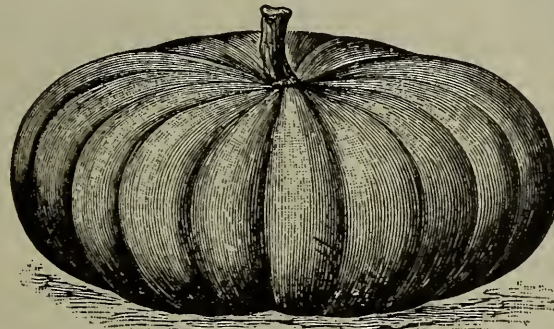


Sugar, or Pie.

### LARGE CHEESE.

A popular variety in the South. Fruit flattened, the diameter being 2 or 3 times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.

Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 70c.



Large Cheese.

### COMMON FIELD.

The well-known old Connecticut variety. Grows well among corn; varies in shape. Excellent dairy stock food.

Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 45c.

### MAMMOTH TOURS.

A French variety, which grows to an immense size, often weighing over 100 pounds. Fruit is either long or round, but generally flattened at both ends; skin pale green marked with deeper bands and marbling.

Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.10.

### KING OF MAMMOTHS.

The flesh and skin are of a bright golden yellow color. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety has been grown to weigh over 200 pounds.

Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.10.

### CASHAW, OR CROOKNECK.

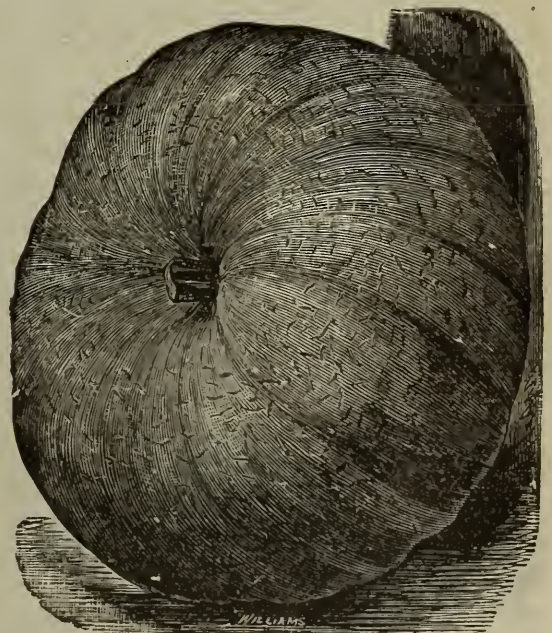
A French variety, liked by many. Has yellow flesh, solid and sweet.

Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 90c.

### KENTUCKY FIELD.

A large round variety, produced in great numbers. Has thick meat of fine quality. Very suitable for canners use.

Pkt., 5c; oz., 10c; ¼ lb., 15c; 1 lb., 45c.



King of Mammoths.

THE BARTELDES SEED CO.,  
DENVER, COLO.

DEAR SIRS:

I have been so well pleased with my six Paeonies and Snowballs that I now want some more.

MRS. G. M. CHAVES,  
Algodones, N. Mex.





# RADISH

**CULTURE.** Sow as early in the spring as the ground can be worked, and every two weeks throughout the season, for a succession of crops. A warm, sandy loam, made rich and light by some good, strong manure, which is thoroughly rotted, will be most likely to afford them brittle and free from worms. During summer months use summer or winter varieties, as the early kinds get pithy. Winter radishes can be wintered over as easily as any root crop, and furnish an acceptable relish. One ounce to 100 feet of drill; 10 pounds to an acre.

Five-pound lots of one variety, 15c less per pound, not prepaid.

## Early Round Varieties

### NON-PLUS-ULTRA.

By far the smallest topped and earliest forcing radish in cultivation. Roots small, round, deep rich red with very crisp, tender, white flesh. This is the very best variety for forcing, as it will mature in 18 to 21 days, and the tops are so small that a large number can be grown in a single bed.

### CRIMSON GIANT.

This new radish is an entirely new type, and differs radically from all the varieties hitherto in cultivation, in-so-far as its roots attain more than double the size of those of other forcing varieties, without getting pithy or hollow. This giant radish develops roots of 6 to 8 inches in circumference and over an ounce in weight, their pure white flesh remaining firm, crisp and mildest of flavor. It is equally well adapted to outside culture.....



Non-Plus-Ultra.

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .25	\$ .75
.05	.10	.25	.75

### EARLY SCARLET GLOBE.

This variety makes roots fit to pull as early as Non-Plus-Ultra, but they are much larger when full size, and for this reason are very popular in some markets. Roots round or slightly olive shaped; color rich, deep scarlet; flesh white and tender.....

.05	.10	.25	.75
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### EARLY ERFURT DARK ROUND RED, OR DEEP SCARLET TURNIP.

Grown side by side with other stock, its characteristics were so marked that it was easily picked out from the others. Its shape is of the very best type of the round sorts; color of skin a very dark red, white flesh, with small tap-roots; one of the best for forcing .....

.05	.10	.25	.75
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### ROSY GEM.

It is one of the very earliest in cultivation. Its shape is perfectly globular, with rich, deep scarlet top, blending into pure white at the bottom, exceedingly tender, crisp and delicious, desirable for growing under glass, and should be planted by everybody..

.05	.10	.20	.65
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Rosy Gem.  
(White Tipped Forcing.)

### EARLY SCARLET TURNIP—WHITE TIPPED.

A beautiful variety; deep scarlet with white tip. It is very ornamental for table use; and is very popular as a market variety. It is of the same size and shape as the scarlet turnip variety .....

.05	.10	.20	.60
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### FRENCH BREAKFAST.

A medium sized radish, olive shaped, with small top, of quick growth, very crisp and tender; of a beautiful scarlet color, except near the root, which is pure white.....

.05	.10	.20	.60
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### EARLY SCARLET OLIVE SHAPED.

A very early and handsome variety, of a lively rose color, oblong shape; top very small .....

.05	.10	.25	.75
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### EARLY SCARLET TURNIP.

A small, round, red, turnip-shaped radish, with a small top and of very quick growth..

.05	.10	.20	.60
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### EARLY WHITE TURNIP.

Like the preceding in shape, but in color a pure white; flesh white and semi-transparent. It is a few days later and will bear heat without becoming spongy.....

.05	.10	.20	.60
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### HALF LONG DEEP SCARLET.

The roots of this hardy and desirable variety are of a very brilliant, deep, rich red color and half long with a somewhat tapering point; the flesh is very white, crisp and tender, and holds its juiciness well, not becoming pithy until overgrown.....

.05	.10	.25	.75
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## Winter Varieties

### ROUND BLACK SPANISH.

Roots round, sometimes top-shaped, three to four inches in diameter. Skin black, flesh white and pungent. A favorite winter radish in this Western country .....

.05	.10	.25	.70
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### LONG BLACK SPANISH.

This variety is sown the last of summer for fall and winter use. Grows to a large size; oblong shape; quite solid. If stored in pits, or packed away in sand, it will keep until spring.....

.05	.10	.25	.70
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Round Black Spanish.



## RADISH, WINTER VARIETIES—Continued.

## SAKURAJIMA, OR JAPANESE RADISH.

This mammoth winter radish attains a length of two feet and a diameter of one foot and more. It is a white variety of mild and delicate flavor. It can be cooked like turnips, pickled in brine, or sliced and eaten raw like other winter radishes. Its leaves make a very pleasing new green, cooked the same as kale or dandelion. The seed must not be sowed before July or it will run up to seed and will make no root. Though sowed late it grows very rapidly; is ready for the table early in autumn, and keeps in a cool cellar all through winter.

Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., \$2.00.

## CALIFORNIA WHITE MAMMOTH.

A giant white-fleshed fall radish. It grows from 8 to 12 inches in length and about 2½ inches in diameter, the flesh being solid, tender and of very good flavor, which is maintained many weeks after gathering.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.25	.70

## CHINESE WHITE, OR "CELESTIAL."

This is the large white radish, cultivated extensively by the Chinese gardeners about San Francisco. It keeps well into the winter, and is usually crisp and not strong. Our seed is direct from California.....

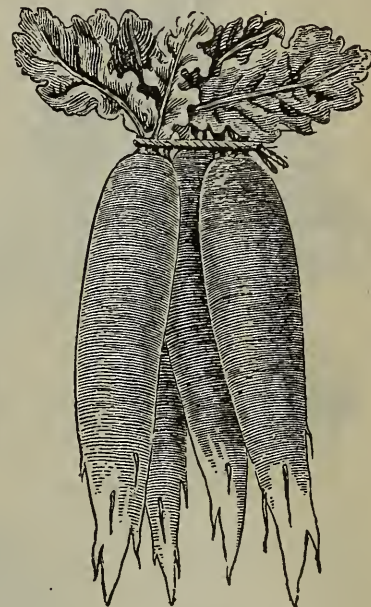
Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.25	.80

## CHINA ROSE-COLORED.

It is of a half-long shape, pink color, flesh solid. It has not that strong flavor peculiar to the Black Spanish and keeps equally well. It should be sown during August

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.25	.70

## LONG VARIETIES



Barteldes Glass.

## BARTELDES GLASS.

This radish comes from the same gardener in Denver who originated the Denver Market Lettuce, and is a fine acquisition. It is a long radish of light pink color, white tipped, of uniform size. The flesh is transparent white, always crisp and brittle even if grown to a large size, and mild flavored. It was named "Glass Radish" on account of the fine transparency of the flesh

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .25	\$ .75

## LONG BRIGHTEST SCARLET.

Extra early, the roots being fit for use about 25 days after sowing; very bright color; quite unique, being the most fiery scarlet in any kind of radishes. It is very slightly tipped with white, and the flesh is crisp and tender.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.20	.60

## CINCINNATI MARKET.

An improved Long Scarlet Short Top, the roots being more perfect in shape, and excellent for forcing.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.25	.75

## EARLY LONG SCARLET SHORT TOP, IMPROVED.

This is, undoubtedly the best standard variety for private garden and market use. It grows 6 or 7 inches long, half out of the ground. It is very brittle and crisp and of quick growth. Color, bright scarlet; small top, tapers regularly to the root, and is uniformly straight and smooth.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.20	.60

## WOOD'S EARLY FRAME.

A sub-variety of the Long Scarlet, not quite so long, and a little thicker; of brilliant scarlet color, mild, brittle; of fine flavor, and the most suitable for forcing and early market garden .....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .20	\$ .60

## CHARTIER.

Color, scarlet at top, shading to pink at center and white at tip. It is very crisp, tender and of mild flavor....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.20	.60

## WHITE ICICLE.

Entirely distinct, long, slender, pure white. Very early; much the earliest and finest long white. It is ready for use fully as early as Long Scarlet Short Top, with less foliage, rendering it most desirable for forcing. In the open ground the roots continue brittle, crisp and mild, until they are fully as large as those of the Long Brightest Scarlet. The Icicle is, perhaps, superior to the finest long red. Roots pure snowy white, 4 inches in length and ½ an inch in diameter; they retain their crispness and mild flavor until fully 6 inches long and an inch in diameter.....

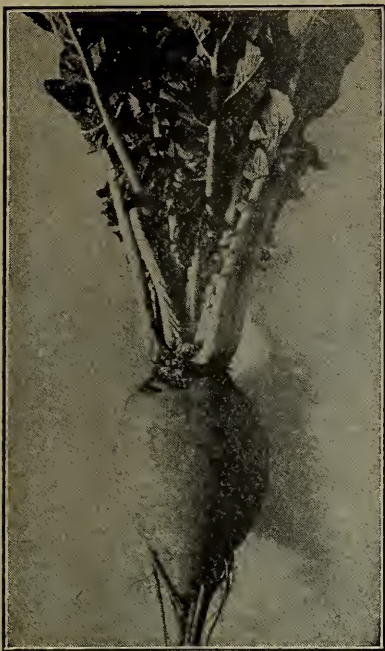
Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.25	.75

## LONG WHITE VIENNA.

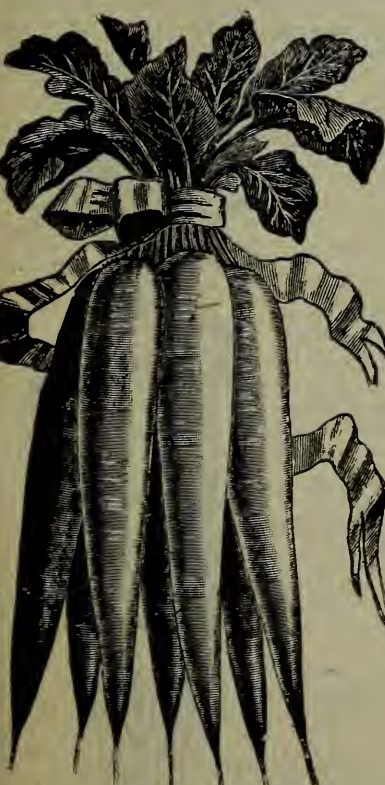
This is one of the finest long white radishes in cultivation. It is most beautiful in shape; both skin and flesh are pure snow white, crisp, brittle and of rapid growth.....

Pkt.	Oz.	¼ lb.	Lb.
.05	.10	.20	.60

Barteldes "Western Seeds" have been in use in this Western country for 33 years and have proven to be best adapted either for irrigation or dry farming.



Japanese Winter Radish.



White Icicle.



## RADISH—Summer Varieties—Continued.

## WHITE DELICIOUS.

It is a better radish for summer use than the White Vienna. The roots are thicker and the flesh is even more solid. It does not grow so quickly, but will stand longer in good condition. The roots are of a pure paper whiteness, half long in form, gradually tapering at the lower end. It is of good size, has a handsome appearance and a particularly crisp, mild flavor .....

Pkt.	Oz.	¼ lb.	Lb.
\$ .05	\$ .10	\$ .25	\$ .80

## WHITE STRASBURG.

The roots are of handsome, oblong, tapering shape. Both skin and flesh are pure white. The flesh is firm, brittle, tender, and possesses the most desirable character of retaining its crispness even when the roots are old and large. No variety is better for summer use, as it withstands severe heat and grows very quickly.....

.05	.10	.20	.70
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## GIANT WHITE STUTTGART.

Very large, top-shaped, and of quick growth. In 5 to 8 weeks after being sown it will produce large roots. Notwithstanding its large size, the quality is always the very finest, firm, brittle, and not pithy.....

.05	.10	.20	.70
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## YELLOW SUMMER TURNIP.

An excellent summer and fall sort; best to stand the heat; can be sown late; is a general favorite with market gardeners; large, oblong, russet color.....

.05	.10	.20	.60
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Rhubarb.

## RHUBARB

**CULTURE.** Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred, the better. Sow in drills an inch deep and thin out the plants to 12 inches apart. The following spring transplant into place; set the plants from 4 to 5 feet each way. One ounce will produce from 400 to 500 plants. Book "Rhubarb Culture," by J. E. Morse; price, 50c.

**LINNAEUS.** Very early and tender.

Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

**VICTORIA.** Very large, later than Linnaeus.

Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

**RHUBARB ROOTS.** Above two varieties, 2 for 25c; 5 for 50c; 12 for \$1.00, prepaid; if not prepaid, 50c per dozen; \$3.00 per 100.

**AUSTRALIAN CRIMSON WINTER RHUBARB.** Recently offered to the public by Luther Burbank. It can be grown in winter indoors. Every lover of this succulent plant should give this variety a trial.

Seed packet, 5c; roots, 15c each, prepaid.

## SPINACH

**CULTURE.** It is one of the most easily managed of all vegetables, requiring but little culture. The main crop is sown in September, and it is sometimes covered with straw in exposed places during winter, which prevents it from being cut with the frost. For summer use it may be sown at intervals of 2 or 3 weeks from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre. Five lbs. or more of one variety, not prepaid, at 15c less per pound.

## ROUND SUMMER.

This variety is generally preferred for early spring sowing, and is popular with the market gardeners. Leaves large, thick and fleshy. Not quite so hardy as the prickly, but stands winter well.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## NEW VICTORIA.

The foliage is heavy, the broad, dark leaves being of the true Savoy appearance, and are of the finest quality, but the features that make it of special value, both for market and family gardens, is that it is in prime condition from 2 to 3 weeks after all other varieties of spinach have run to seed.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## LONG STANDING.

An improved strain of excellent merit, having all the good qualities of the ordinary sorts; what renders it especially desirable is the fact that it

is much later in going to seed than any other variety.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## PRICKLY WINTER.

The hardiest variety, and will withstand the severest weather, with only a slight protection of leaves or straw. The seed is prickly; leaves triangular, oblong, or arrow-shaped. It is the best for fall sowing, which in this latitude is made about the first of September.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.



Round Summer.

## LARGE ROUND THICK LEAF VIROFLAY.

A variety with very large, thick leaves, making it especially desirable where bulk is desired.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## AMERICAN CURLED SAVOY LEAVED.

A most valuable variety. In appearance the leaf is wrinkled in the same way peculiar to Savoy Cabbage, from whence the name. It produces nearly twice the bulk of crop as the ordinary sort, is fully as hardy, and in all respects equal.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

## NEW ZEALAND.

This is different from the ordinary type of spinach, being of a branching habit, producing large, thick leaves, which can be gathered and used as greens throughout the summer. Especially desired in very hot weather, when ordinary spinach is not good.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

## SALSIFY OR OYSTER PLANT

**CULTURE.** The Oyster Plant succeeds best in light, well enriched, mellow soil, which, previous to sowing the seeds, should be stirred to the depth of 18 inches. Sow early in the spring, in drills 15 inches apart; cover the seeds with fine soil 1 inch deep. One ounce for 60 feet of drill; 7 pounds to one acre.

## MAMMOTH SANDWICH ISLAND.

This new Salsify, recently introduced from the Sandwich Islands, grows fully double the size of the common variety, and is superior in quality. It is pure white in color, and is invaluable to market gardeners.

Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.



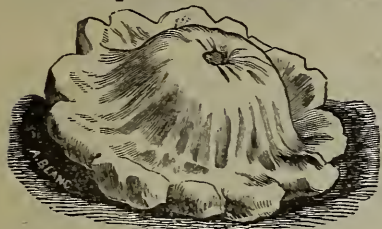
Salsify.



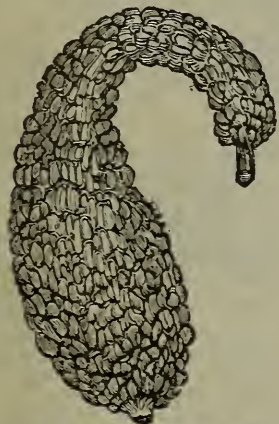
# SQUASH

**CULTURE.** Sow about the middle of spring, in hills, the early sorts about 4 feet apart, and the late varieties 6 to 8 feet. Drop enough seeds to be thinned to 3 plants in a hill. The hills should be highly manured and prepared in a similar manner as those for cucumbers. One ounce to 40 hills for small sorts; large varieties, 1 ounce to 30 hills; 4 to 5 pounds to an acre.

Five pounds or more of one variety, not prepaid, at 15c less per pound.



White Bush or Patty Pan.



Mammoth Summer Crookneck.

## HUBBARD.

The best table squash yet known, good specimens being about equal to the sweet potato. It has a hard shell, and with some care will keep three months later than the Marrows; flesh fine grained, dry and of excellent flavor

## WARTY HUBBARD:

This is one of the best in quality of all winter sorts. The flesh is dry and sweet. Shell very dark green and hard, which insures long keeping qualities. It is considered an improvement on the old type of Hubbard, on account of its warted skin.

## GOLDEN HUBBARD.

This is a very distinct sort of the shape and general character of the Hubbard, but a little smaller; earlier to mature, and of a rich orange-red color, instead of the dark olive-green of the old Hubbard.

## MARBLEHEAD.

About the size of the Hubbard, with shell of bluish-green, and bright orange flesh. Requires the whole season to mature.

## DELICIOUS.

One of the best squash for table use, combining fineness and compactness of grain, dryness and exceeding richness of flavor. It is an excellent fall and winter variety though it does not acquire its best quality until winter. The fruits usually weigh from 6 to 10 lbs. The rind is uniformly green; the flesh dark orange and very thick. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

## MAMMOTH CHILI.

Size, enormous, often weighing 100 to 200 pounds; very profitable for stock feeding, especially where root crops are grown extensively; remarkably productive. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

## EARLY WHITE BUSH.

The earliest to mature; very productive; light cream colored. Pkt. \$ .05 Oz. \$ .10 ¼ lb. \$ .25 Lb. \$ .75

## MAMMOTH WHITE BUSH.

The fruit is a beautiful clear, waxy-like and is much larger... .05 .10 .30 .80

## GOLDEN SUMMER CROOKNECK.

A small, crooked-necked, summer squash, skin bright yellow covered with warty increscences. Very early, productive and of excellent flavor .05 .10 .25 .75

## MAMMOTH SUMMER CROOKNECK.

It is the best summer squash, and for these reasons: It is twice as large as the ordinary Summer Crookneck, far more warty and several days earlier... .05 .10 .30 .80

## VEGETABLE MARROW.

A favorite English sort; early, skin greenish-white, flesh white, soft and of rich flavor; quite distinct from other sorts... .05 .10 .30 1.00

## PROLIFIC MARROW.

Is remarkably productive and very early, being about 12 days ahead of the Boston Marrow. Its color is most attractive—a brilliant orange red; quality excellent; a good keeper... .05 .10 .30 .90

## BOSTON MARROW.

Oval in form; color of skin bright orange, flesh yellow; very desirable for late autumn and winter use... .05 .10 .30 .90

## FORDHOOK.

One of the hardiest, flesh thick, small seed cavity, and a good keeper .05 .10 .30 .90

## ESSEX HYBRID.

An improved American Turban, having the color, shape and superior qualities of the Turban, with the dry and hard shell of the Hubbard .05 .10 .30 .90

## SIBLEY'S.

One of the best for shipping, owing to the hardness of the shell. Flesh is solid and thick, a bright orange color, and of choice quality .05 .10 .30 .90



.05 .15 .40 1.15



Hubbard.

.05 .15 .40 1.15

.05 .10 .30 1.00

.05 .10 .30 1.00



Delicious.

# TOBACCO

**CULTURE.** Tobacco, in this part of the country, should be started in hot-bed in March, and treated the same as tomato

**HAVANA.** Pure Cuban-grown seed. When grown in this country demands a high price as cigar stock... \$ .05 \$ .30 \$1.00

**MISSOURI BROAD LEAF.** A well known standard sort, valuable for cigar wrappers... .05 .25 .75

**CONNECTICUT SEED LEAF.** Best adapted to the climate of the middle and Northern states, as it is more hardy and endures the cold better than the tender varieties grown in the South... .05 .25 .75

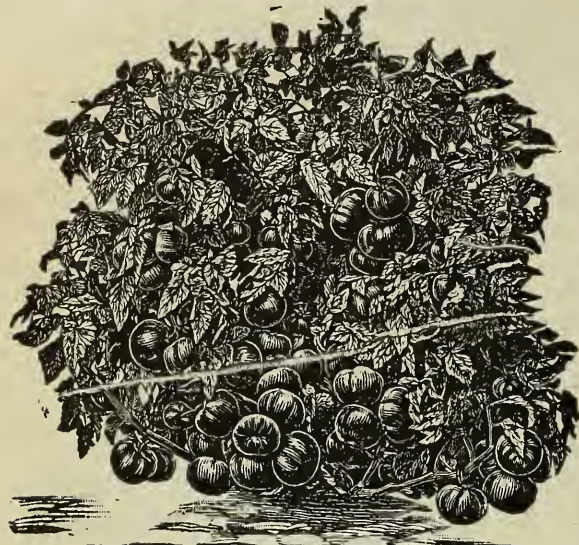
**WHITE BURLEY.** A variety largely grown for the manufacture of Fine Cut and Plug... .05 .50 1.50



# TOMATO

**CULTURE.** When the plants are to be raised, the seed should be sown in March, in a hot-bed or greenhouse, or they may be sown in a box and kept inside the window of a room where the night temperature is not less than 55 degrees. The plants should be thinned out in the bed so as to give them plenty of room or they will be weak and poor. They should also be hardened before planting outside. About the middle of May the plants may be set in the open ground, from 4 to 5 feet apart each way. Our stock of tomatoes is grown by several of the best growers, and among them Livingston. One ounce produces about 1,500 plants.

**NEW CORELESS—See Novelties.**



**Dwarf Champion.**

The color is a very glossy crimson, with a slight tinge of purple. It grows in clusters of 4 or 5 large fruits, retaining its size very late in the season. It is very productive and will yield more pounds of fruit to the acre than most other kinds. It ripens very early and evenly, and is perfect in shape.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

## BARTELDES SELECTED STRAIN BEAUTY.

Grown especially for us, and under our personal care, from specimens selected and improved. It is the smoothest and best of the large purple sorts. Nothing better and more worthy to carry our trade mark.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## HONOR BRIGHT.

The foliage is yellowish green, and the first fruit as it ripens turns first white, then yellow, and when fully ripe is a bright red. The fruit ripens slowly and seems to ripen up exceptionally well after picking, so that the fruit can be picked when white, packed and shipped, and after 5 to 10 days will be found solid and ripened to a rich, bright red.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## THE TRUCKER'S FAVORITE TOMATO.

In our estimation this is the "Peerless" amongst the medium early, large pink tomatoes; a variety of such unusual merit that it deserves the highest praise and recommendation. It is truly "The Trucker's Favorite." Its fine, smooth, uniformly shaped fruits command the highest market prices. The fruits are thick meated and very solid; the meat is of the finest flavor, making the tomatoes equally good for slicing and for cooking purposes. The vines are of strong growth, not subject to rust or blight, and bear enormous crops till frost.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## KANSAS STANDARD.

The "Kansas Standard" belongs to the potato-leaved class of tomatoes; is of rapid, vigorous growth, with strong, heavy stalks which stand up well unless, which is often the case, they are pulled down by over abundant fruit. It begins blooming when only 6 or 7 inches high, attains a height of from 2½ to 3 feet. The fruit is of a bright glossy red color and is produced in clusters of 4 to 5 tomatoes.

Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

## ATLANTIC PRIZE.

This is one of the largest, smoothest, best flavored and brightest colored extra early tomato.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

## BARTELDES' SELECTED STRAIN STONE.

Grown by the same grower who grows Barteldes' Selected Strain Beauty, with same care, and bearing also our trade mark. It ripens for main crops; is very large, and bright scarlet color; very smooth, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed as the name indicates; is an excellent shipper; quality the very best; fine for canning; a good keeper, not subject to rot.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## NEW MATCHLESS TOMATO.

The vines are of strong, vigorous growth, well set with fruit. The fruits are free from core, of a rich cardinal red color, and are not liable to crack from wet weather; are of very large size, and the size of the fruit is maintained throughout the season until killed by frost. The skin is remarkably tough and solid, and ripe specimens picked from the vines will keep in good condition for several weeks.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**TROPHY.** An improved sort for either private use or market garden. . . . . Pkt. .05 Oz. .20 ¼ lb. .60 Lb. \$2.00

**ROYAL RED.** It is a first-class main crop variety for the shipper, market and private gardeners. . . . . .05 .20 .60 2.00

**FAVORITE.** It has no green core, is as smooth as an apple, never cracks after ripening. . . . . .05 .20 .60 2.00

**ACME.** A tomato of superior quality; size, medium; color, maroon or reddish with slight tinge of purple; flesh, deep scarlet, and unusually solid. . . . . .05 .20 .60 2.00

**PERFECTION.** Perfectly smooth, blood red in color, with thick flesh and few seeds. . . . . .05 .20 .60 2.00

## EARLIANA.

Produces fruit earlier than any other variety. The quality is good, of large uniform size, red color. It is very solid, being a shy seeder. Every gardener will make good profit on early tomatoes when raising Earliana.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## JUNE PINK.

This new Tomato resembles Earliana, except in color, which is a fine pink color. It is the earliest pink tomato grown, and is from 2½ inches to 3 inches in diameter. The vines are very robust, almost blight proof, and very heavy bearers, being the first on the market, and lasts till frost.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## EXTRA EARLY RED.

An old favorite and much in demand for private gardens where early small size tomatoes are wanted.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

## DWARF CHAMPION.

Its close, upright growth enables it to be planted much nearer together than any of the other sorts, and the yield, therefore, is accordingly much greater. In productiveness it is unsurpassed. It is also very early. The fruit resembles the Acme, and is of a purplish-pink color, and always smooth and symmetrical in form. It is medium size and attractive in appearance; the skin is tough and the flesh solid and of fine quality.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

## BEAUTY.



**Barteldes' Selected Strain Beauty.**





## TOMATO—Continued.

	Pkt.	Oz.	¼ lb.	Lb.
<b>GOLDEN QUEEN.</b> The best large yellow variety.....	.05	.30	.75	2.25
<b>YELLOW PLUM.</b> Color bright yellow; excellent for preserving.....	.05	.30	.85	....
<b>RED PLUM.</b> Same as above, except color.....	.05	.30	.85	....
<b>RED PEAR.</b> A small early variety, fine for preserving.....	.05	.30	.85	....
<b>YELLOW PEAR.</b> Same as above, except color.....	.05	.30	.85	....
<b>RED CHERRY.</b> A small variety, size and shape of a cherry, for pickling.....	.05	.30	.85	....
<b>YELLOW CHERRY.</b> Same as above, except color.....	.05	.30	.85	....
<b>HUSK TOMATO, OR YELLOW GROUND CHERRY.</b> This is liked by many for preserves and eating from the hand.....	.05	.30	.85	....

## TURNIP

**CULTURE.** Turnips do best in highly enriched, light, sandy or gravelly soil; commence sowing earliest varieties in April, in drills from 12 to 15 inches apart, and then thin out early to 6 or 9 inches in the rows. For a succession, sow at intervals of a fortnight until the last week in July, from which time until the end of August sowing may be made for the fall and main crop. One ounce will sow 150 feet of drill; 1½ pounds to an acre.

Five pounds of any variety, not prepaid, at 15c less per lb.

## EXTRA EARLY WHITE MILAN.

The earliest in cultivation. The bulb is very flat, of medium size, quite smooth. It is a pure white, thus making it especially desirable for

	Pkt.	Oz.	¼ lb.	Lb.
forcing .....	\$.05	\$.10	\$.25	\$.90

## EXTRA EARLY PURPLE TOP MILAN.

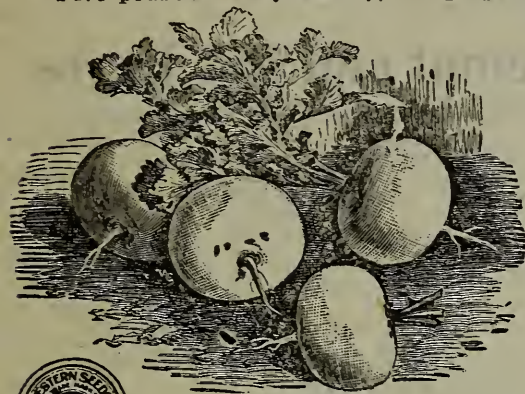
A bright purple top; leaves few, short and light of color, growing very compact, and makes an exceedingly small and neat top. The pure white flesh is of the choicest quality, hard, solid and fine grained. It is an excellent keeper.....

.05	.10	.25	.85
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## EARLY SNOWBALL.

It is medium sized, pure white and early, of excellent quality. In our market it is much admired .....

.05	.10	.20	.60
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Snowball.

## EARLY WHITE EGG.

A quick growing egg-shaped, perfectly smooth, pure white variety, growing half out of the ground, with small top and rough leaves. Its smooth, white skin and quick growth make it particularly desirable for market purposes. The flesh is very sweet, firm and mild, never having the rank, strong taste of some varieties.....

## EARLY WHITE FLAT DUTCH (STRAP-LEAVED.)

This is a popular early turnip for table use for autumn and early winter, but as they become over-ripe with age, and in keeping lose somewhat of their succulence, they need to be succeeded by the Pomeranian Globe or Golden Ball.....

## PURPLE TOP (STRAP-LEAVED.)

The standard of this part of the country. Superior for early or late planting. Round, flat, good sized, small top with but few leaves; flesh very fine grained; flavor good.....

## GOLDEN BALL.

Undoubtedly among the most delicate and sweetest yellow fleshed turnips yet produced. Not of large size, but firm, hard and of most excellent flavor. Keeps well.....



White Egg.

## AMBER GLOBE—Strap-Leaved.

One of the best varieties, either for table use or for a field crop for stock. Flesh yellow, fine grained and sweet; color of skin, yellow with green top. Hardy, keeps well; a good cropper, grows to a very large size.....

.05	.10	.20	.60
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## LARGE EARLY RED TOP GLOBE.

Large size, rapid growth, unusually attractive and admired by all.....

.05	.10	.20	.60
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## POMERANIAN WHITE GLOBE—Strap-Leaved.

This is a free-growing, rough-leaved sort, useful for both table and stock. It is not quite so rapid in growth as the flat varieties; may be expected to come in as a succession in autumn and is admirable for table use in early winter...

.05	.10	.20	.60
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## YELLOW ABERDEEN OR SCOTCH YELLOW.

This is a highly approved cattle turnip, attaining a large size. It is solid, nutritious, a good keeper, and is in every respect reliable....

.05	.10	.20	.60
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Pomeranian White Globe.

## COW HORN.

This variety is pure white, except a dash of green at the crown, and in shape is long like a carrot, and generally crooked, hence its name.....



Purple Top Strap-Leaved.

.05	.10	.20	.60
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## Rutabaga

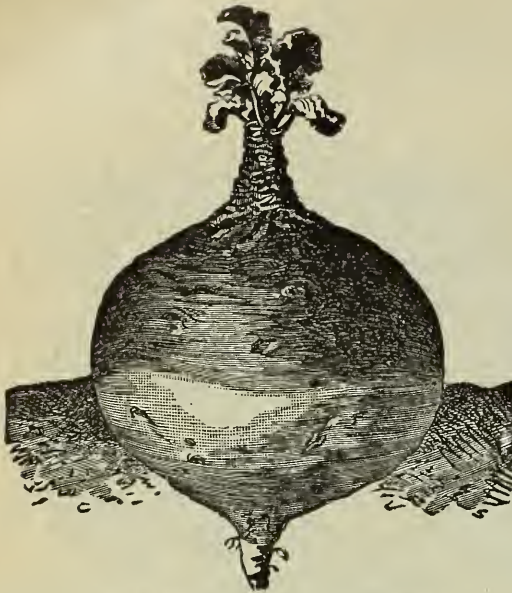
Write for our leaflet, "Roots for Stock Feeding." Free for Asking.

### SWEET GERMAN.

Flesh white, hard and firm, partaking much of the nature of a rutabaga. Must be sown much earlier than the flat turnips. In the autumn and early winter it is apt to be hard, but mellows like an apple by keeping.  
Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

### YELLOW, PURPLE TOP RUTABAGA.

Hardy and productive, flesh yellow, of solid texture, sweet and well flavored; shape slightly oblong; terminates abruptly with no side or bottom roots; color deep purple above and bright yellow under the ground; leaves small, light green, with little or no neck; the most perfect in form, the richest in flavor, and the best in every respect.  
Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.



Rutabaga—Yellow, Purple Top.

## Aromatic, Medicinal and Pot Herbs

Every Kitchen Garden Should Have a few of These Useful Herbs.

	Pkt.	Oz.		Pkt.	Oz.
<b>Anise.</b> An annual, cultivated for its seeds and its leaves, which have a fragrant, agreeable scent, and a pleasant taste.....	5c	10c	<b>Savory.</b> Annual; leaves are used for culinary purposes .....	5c	10c
<b>Balm.</b> A hardy perennial of aromatic taste and a grateful fragrant smell .....	5c	25c	<b>Sorrel.</b> Broad-leaved. Perennial; used in soups and salads and sometimes cooked like spinach.....	5c	20c
<b>Borage.</b> Annual; in Germany the leaves are cut and used for cucumber salad .....	5c	15c	<b>Sweet Basil.</b> Annual; the leaves are used for highly seasoned dishes.....	5c	15c
<b>Caraway.</b> The seeds are used for flavoring.....	5c	10c	<b>Sweet Fennel.</b> Perennial. Tea made from the seeds is an excellent remedy in case of colic and stomach complaints .....	5c	10c
<b>Catnip or Catmint.</b> A great favorite among medicinal herbs.....	5c	35c	<b>Sweet Marjoram.</b> Biennial; the leaves are used in soups; the seeds in the manufacture of sausage..	5c	15c
<b>Chervil.</b> Annual; used for soups and salads.....	5c	15c	<b>Tarragon.</b> Perennial. A very popular French herb for making Tarragon vinegar.....	10c	...
<b>Coriander.</b> Annual; its tender leaves are sometimes used for soups and salads .....	5c	10c	<b>Sweet Thyme.</b> Perennial; thyme tea is an excellent remedy for nervous headache.....	5c	...
<b>Dandelion.</b> Perennial; cultivated for spring greens; an excellent tonic .....	5c	25c	<b>Wormwood.</b> Perennial; used for medicinal purposes. Beneficial to poultry and should be planted in every poultry yard.....	5c	20c
<b>Dill.</b> Annual; it is cultivated for its seeds which are used medicinally and for flavoring pickles.....	5c	10c			
<b>Hop.</b> The popular variety of commerce.....	10c	...			
<b>Horchound.</b> Perennial; used as a tonic.....	5c	20c			
<b>Hyssop.</b> A perennial with aromatic flowers and of pungent flavor.....	5c	20c			
<b>Lavender.</b> Perennial; cultivated for its fragrant flowers and aromatic leaves.....	5c	15c			
<b>Rosemary.</b> Perennial; the tops only are used as a medicine.....	5c	40c			
<b>Rue.</b> Perennial; a very powerful tonic. It must not be allowed to run to seed.....	5c	15c			
<b>Sage.</b> Perennial; tea made from the leaves is an excellent means for producing sweat. ¼ lb., 45c; lb., \$1.50 .....	5c	15c			
<b>Saffron.</b> Annual; the dried flowers are used for medicinal purposes .....	5c	20c			

## Choice Flower Seeds

DIRECTIONS FOR PLANTING AND CULTURE PRINTED ON EACH PACKAGE

All Flower Seeds Sent Prepaid on Receipt of Price

### ABRONIA—Umbellata.

A handsome trailing plant, with clusters of sweet-scented flowers resembling Verbenas in shape, but of smaller size; color, rose lilac, with white eye. Fine for baskets and vases, as well as the garden. Remove the husk from the seed before sowing (as it grows much surer.) Height, 6 inches. Half-hardy annual. Pkt. 5c

### ABUTILON, or Flowering Maple.

Desirable for the conservatory in winter, and effective border plants during summer, producing a profusion of lovely bell-shaped flowers. Half-hardy shrubs. Height, 2 to 6 feet; perennial. Pkt. 15c

Finest Mixed.

### ACROCLINIUM.

This beautiful everlasting flower somewhat resembles the Rodanthe, but the flower heads are of larger size. It is largely used for winter bouquets, for which purpose the flowers should be cut before they are fully expanded. Half-hardy annual. Pkt. 5c

Mixed.  
White.

Pkt. 5c  
Pkt. 5c



Adonis.

### ADLUMIA, or Allegheny Vine.

A most beautiful and graceful climber, thriving in a sheltered situation, and climbing by its tendrils to any object within its reach. Is sometimes known as Mountain Fringe, Wood Fringe and Allegheny Vine. The beautiful pink and white flowers are produced in abundance during the three summer months. It is biennial, and makes but little growth the first season. Height, 15 feet. Pkt. 10c

### ADONIS—Aestivalls.

Plants with fine and graceful foliage, and brilliant scarlet flowers, remaining a long time in bloom. Grows well in the shade or under trees. Height, 1 foot. Hardy annual. Pkt. 5c

### AGROSTEMMA—Coronarla.

(Rose Campion.)

Perfectly hardy plants, producing pretty pink-like blossoms on long slender stems. Very useful for putting into bouquets, and pretty in masses or in beds. About 1½ feet high. Fine mixed. Perennial. Pkt. 5c





Ageratum.

**AGERATUM—Mexicanum.**

Flowers light blue or lavender; very desirable for bouquets, furnishing a continuous bloom through the summer. Plants flower well in the house in winter, when potted in the fall before frost. Height, 12 inches. Hardy annual.

Pkt. 5c

**ALONSOA—Myrtifolia.**

An attractive bedding plant with remarkably brilliant scarlet flowers, in bloom from July till frost. Removed to the house, they bloom well during winter. Height, 18 inches. Half-hardy annual.

Pkt. 5c



Sweet Alyssum.

**ALYSSUM—SWEET.**

A favorite flower for bouquets; white, very fragrant, and producing a succession of blooms through the summer and until after severe frosts. Always wanted when a bouquet is made. Height, 1 foot. Hardy annual.

**Maritimum.** Oz., 20c; Pkt. 5c

**Dwarf, or Little Gem.** Oz., 40c; Pkt. 5c

**Saxatile.** Flowers brilliant golden yellow completely hiding the foliage. Hardy perennial. Height, 1 foot.

Pkt. 5c

**AMARANTHUS.**

Valuable for its varieties of handsome foliage, whether grown in the conservatory or garden. The colors will be more brilliant if planted in moderately rich soil. Height, 2 to 3 feet. Hardy annual.

**Tri-Color** (Joseph's Coat.) Pkt. 5c

**Caudatus** (Love Lies Bleeding.) Pkt. 5c

**Cruentus** (Princess Feather.) Pkt. 5c

**AMMOBIUM—Alatum. (Everlasting.)**

A small, white immortelle, or everlasting, very useful for cutting when fresh, and drying admirably for winter bouquets; producing a succession of blooms from July till frost. Height, 18 to 24 inches. Hardy annual.

Pkt. 5c

**ARMERIA—Maritima (Sea Pink.)**

These handsome plants are well adapted for ornamenting rock work and edging walks. Hardy perennial. Height, 6 inches. Rosy pink.

Pkt. 5c

**AMPELOPSIS.**

One of the best climbing plants for permanent situations, as it is perfectly hardy, climbing to the sides of whatever it may be grown against by the rootlets it throws out all along the stems. In the autumn the dark-green foliage assumes beautiful tints of orange, crimson, etc. Height, 50 to 100 feet. Hardy perennial.

**Quinquefolia** (American Woodbine.)

Pkt. 10c

**Veitchii** (Japan or Boston Ivy.)

Pkt. 10c



Snapdragon.

**ANTIRRHINUM—Snapdragon.**

One of the most desirable flowers in the catalogue for its variety of colors and succession of blooms, lasting from July until severe frost. The plants should be covered with fine boughs or other light material in November, and they usually survive and bloom finely the second year. Height, 1 foot. Perennial.

**Dwarf, mixed colors.**

Pkt. 5c

**Tall, mixed colors.**

Pkt. 5c

**Queen of the North. White.**

Pkt. 5c

**AQUILEGIA COERULEA.****True Rocky Mountain Columbine.**

Colorado's emblematic flower. Needs to be seen to be appreciated. The flower petals lay open more flat than the common Columbine. Color is a light blue, in very high altitudes nearly white. We are headquarters for this seed and furnish the true *Aquilegia Coerulea*.

Pkt. 10c



Double Columbine.

Can supply roots at 20c each, or three for 50c., by mail.

**AQUILEGIA—Garden.**

Height, from 1 to 3 feet. Hardy perennial.

**Mixed Colors. Single and double.** Pkt. 10c

**Yellow.** Pkt. 10c

**ASPARAGUS.**

A very popular house plant, much used for hanging baskets. Perennial.

**Sprengeri.**

Pkt. (15 seeds), 10c

**Plumosus Nanus.**

Pkt. (12 seeds), 15c

**ASPERULA—Azurea Setosa.**

A flower finely adapted for bouquets, by reason of its shape, size and delicate color—a light blue or lavender. In bloom from July until after severe frosts. Height, 9 inches. Hardy annual.

Pkt. 5c





Aster—Truffaut's Paeony Flowered.

## ASTER

No family of plants bears such marks of progress as the Aster, and none is more eagerly sought. An almost endless variety; always reliable. For best results sow seed early indoors, then transplant to open ground. Our seed can be depended upon for fine bloom.

**Queen of the Market.** The earliest variety. Colors, white, pink, red, blue or mixed.  $\frac{1}{4}$  oz., 40c. Pkt. 10c

**Truffaut's Paeony Flowered.** Medium tall; deserves a place in every garden. The colors are bright and delicate. White, blue, indigo, rose, red. Pkt. 10c

All colors, mixed,  $\frac{1}{4}$  oz., 50c. Pkt. 10c

**Victoria.** Of the tall varieties, none excels the Victoria. The flowers are large and double, of globular shape, ranging in all colors possible. Mixed,  $\frac{1}{4}$  oz., 50c. Pkt. 10c

**Comet, or Branching.** A handsome and very distinct variety, resembling Japanese Chrysanthemums. Half dwarf.

White Giant, the finest white grown. Pkt. 10c

Mixed, including many colors,  $\frac{1}{4}$  oz., 60c. Pkt. 10c

**Daybreak.** A beautiful Aster, a rare gem among this splendid family; the flowers are round, large and full, of a delicate shell-pink and borne on long stems; the best for bouquets. The plants are very robust and of branching habit. Pkt. 10c

**Mignon.** Similar to the Victoria, though the flowers are smaller and the plant more dwarf. Mixed. Pkt. 10c



Double Balsam.

**German Quilled.** This is the popular Japanese Needle. Grows 18 to 20 inches high, with 30 to 40 flowers on long stems. Mixed.  $\frac{1}{4}$  oz., 50c. Pkt. 10c

**Good Mixed.** All varieties.  $\frac{1}{4}$  oz., 40c. Pkt. 5c

## BALSAM.

The Balsam has been so much improved by cultivation as to be scarcely recognized. The blossoms are double, though semi-double and single ones are very certain to appear, and such plants should be removed. Require a rich, deep soil, good culture and plenty of space to grow to perfection. Height, 2 feet. Tender annual.

**Double, Mixed.** Oz., 35c. Pkt. 5c

**Double, Camellia, Mixed.** Oz., 60c. Pkt. 10c

**Double, White Alba Perfecta.** Oz., \$1.00. Pkt. 10c

## BEANS—Various Colors.

Ornamental climbers for porch and trellis. **Scarlet Runner, White Runner, Tricolor**, each, pkt., 5c;  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 20c; 1b., 35c, prepaid.

## BEGONIA—Tuberous Rooted.

The newer forms of Begonias are among the most brilliantly beautiful of flowering plants. They can be grown from seed, which should be sown in February or March in pots on the surface of fine soil. Cover the pot with glass and keep in a warm but shaded place; taking great care not to wash out the small seeds or young plants in watering. The plants will give an abundance of bloom the first year, and at the end of the season they may be dried off by withholding water, and the tubers kept in a dry place, free from frost, and planted the following spring, when they will bloom more freely than ever.

**Single. Mixed.** Pkt. 25c

**Double. Mixed.** Pkt. 25c

**Bulbs.** See Bulb List.



Bachelor's Button.

## BACHELOR'S BUTTON— Centaurea Cyanus.

A showy annual, of easy culture, flowering freely with a great variety of colors, in common garden soil. Height, 2 feet. Pkt. 5c

**BELL FLOWER.** See Campanula.

**BELLIS PERENNIS.** See Double Daisy.

## BIGNONIA RADICANS—Trumpet Vine.

Magnificent, hardy, deciduous climber, with brilliant flowers, deserving a first place as an ornament and effective covering for walls, houses, etc. Hardy perennial. Height, 20 to 30 feet. Pkt. 10c

**BOSTON IVY.** See Ampelopsis.

## BOX WOOD—Buxus Sempervirens.

A fine small evergreen, with pale green leaves. Can be trained in desired form by shearing; largely used for bordering flower beds. Hardy perennial. Pkt. 5c

## BRACHYCOME—Swanriver Daisy.

A delicate dwarf growing plant, suitable for growing in grasses, edgings and rustic baskets. The flowers are of various shades of blue and white, with dark and white center, cineraria-like in form, rather bell-shaped. After blooming the petals of the flowers roll up closely. Pkt. 5c

Mixed colors.

Pkt. 5c

## CACALIA—Coccinea (Tassel Flower.)

A pretty annual, with flowers of bright scarlet, borne in clusters on slender stalks, about a foot in length. They keep in bloom from early summer until autumn, furnishing flowers for cutting every day. Height, 1 foot. Pkt. 5c

## CALIFORNIA POPPY—Eschscholtzia.

A flower attractive in foliage, bud and blossom. One of the most brilliant flowers grown. Plants procumbent, forming dense, bushy masses with a succession of flowers from July until after severe frosts. When grown with Dwarf Convolvulus, contrasts finely with the dark blue. Height, 1 foot. Half-hardy annual.

California. Mixed.

Pkt. 5c

**Early Douglasii.** Early flowering, yellow with golden center. Pkt. 5c

**Mammoth Golden West.** Large orange color, shading to yellow at edges. Pkt. 5c



California Poppy.



**CALCEOLARIA.**

A favorite and universally admired genus, remarkable for their large, beautifully spotted blossoms produced in almost countless variations of markings. They are grown in pots in the conservatory, greenhouse and garden. Perennial.

**Hybrida Grandiflora.** Flowers of immense size; seed saved from finest specimens. Pkt. 25c

**CALLA—Aethiopica.**

An old and very desirable plant, either as an aquatic or for ornamentation of the drawing room and conservatory. Thrives in any light, rich soil when plentifully watered. Height, 1 to 2 feet. Half-hardy perennial. Pkt. 10c

For Bulbs, see Bulb List in back part of this catalogue.

**CALLIOPSIS.**

A very showy border plant, producing flowers in nearly every shade of yellow, orange, crimson, red and brown. If the seed pods are removed as fast as they appear, the plant will remain in bloom much longer. Height, 2 feet. Hardy annual. Pkt. 5c

Mixed colors.

**CALENDULA—Officinalis.**

This splendid variety has large double flowers beautifully imbricated, resembling in size and form the finest Aster. Each petal, of pale straw color, is regularly marked with a stripe of bright, deep orange. Blooms profusely with a succession of flowers from July till frost. It is one of the best annuals for a garden display. Height, 18 inches. Pkt. 5c



Carnation Marguerite.

**CARNATION.**

This beautiful and well known plant produces finer flowers when grown from seed than when grown from cuttings taken from old plants. Our seed will produce a fine variety of colors, with flowers of good size and substance. Height, 18 inches. Half-hardy perennial.

German. Mixed colors.

Pkt. 10c

**Marguerite.** These are deservedly the most popular Carnations with the amateur, as they begin flowering four months from time of sowing. The strain offered is of extra fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly-scented flowers.

Mixed Colors.

Pkt. 10c

Grenadin. Pink and white, mixed.

Pkt. 15c

**CARNATION PLANTS.**

Seedlings of various colors furnished. Ready in April. See page 61.

**CASTOR BEANS—Ricinus.**

A luxuriant, expansive foliage plant of tropical appearance, that should have a place in every garden affording the requisite space. The stalks of the plant are of a brownish red; the leaves are very large, palmate, and strikingly elegant. Height, 6 to 10 feet. Tender annual.

**Sanguineus.** Large, red. Oz., 15c. Pkt. 5c

**Zanzibariensis.** New Zanzibar, a giant, a large-leaved variety. Oz., 20c. Pkt. 5c



Castor Beans.

**CANNA.**

Stately plants, with foliage of elegant growth, presenting a luxuriant and tropical appearance, and much employed in ornamental planting; when planted in clumps of 4 or 5 contrasting colors are very effective. Height, 3 to 6 feet. The seeds should be cut at one of the ends about 1-16 inch and then soaked in warm water for 24 hours. Tender perennial.

Mixed Colors.

Pkt. 5c

Madame Crozy varieties. Mixed colors.

Pkt. 5c

For Bulbs, see Bulb List in back part of this catalogue.

**CLARKIA—Pulchella.**

The Clarkia is held in great estimation in Europe, and especially in England, where it is as common as the Candytuft. The flowers are very pretty and of many colors, double and single. As the plant is apt to suffer in our hot, dry summers, it is better to sow the seed in a partly shaded situation. Hardy annual. Height, 1½ feet. Pkt. 5c



Campanula.

Calendula.

**CAMPANULA MEDIA—Bell Flower.**

A beautiful hardy herbaceous perennial, bearing a great profusion of attractive Bell flowers; doing best in light, rich soil. Height, 2 to 3 feet. Mixed colors.

Pkt. 5c

**Campanula Speculum.** See Venus' Looking Glass.

**CANARY-BIRD FLOWER—Tropaeolum Canariensis.**

One of the best climbing plants, with graceful foliage of a delicate shade of green, with small yellow flowers, which, when half expanded, have a fanciful resemblance in shape of canary birds. Height, 8 feet. Half-hardy annual. Pkt. 10c

**CANDYTUFT.**

Candytuft is desirable for bouquets, especially the white, for its form, fragrance and profusion of bloom. Height, 1 foot. Hardy annual.

Mixed Colors. Oz., 15c.

Pkt. 5c

White Rocket. Oz., 20c.

Pkt. 5c

Dwarf, Tom Thumb. Oz., 20c.

Pkt. 5c

Empress. Oz., 25c.

Pkt. 10c

**CATCHFLY—Silene Armeria.**

A showy, free flowering plant, with bright, dense heads of flowers, growing well in common garden soil. Adapted for border, circular beds and ribbons. Height, 18 inches. Hardy annual. Pkt. 5c



Candytuft—Tom Thumb.



**CENTAUREA****IMPERIALIS.**

The finest of all Sweet Sultan family, as a cut flower.

Mixed colors. Pkt. 10c

**CENTAUREA MOSCHATA.** See Sweet Sultan.**CENTAUREA CANDIDISSIMA.****SIMA—Dusty Miller.**

Magnificent foliage plants of silver white and grey foliage, indispensable for borders and edges. Half-hardy perennial. Height, 1 foot. Pkt. 10c



Centaurea—Dusty Miller.

**CENTAUREA GYMNOCARPA.**

Fine cut silvery foliage.

Pkt. 5c

**CENTAUREA MARGUERITE—White.**

A sweet-scented Centaurea about as large as a medium-sized Carnation. It is a sport from Centaurea Odorata, and the plants are about 18 inches high. The flowers are beautifully lacinated and produced on long stems; their lasting quality after being cut is remarkable. The beauty of this easily cultivated annual is certain to excite admiration.

Pkt. 10c

**CHRISTMAS PEPPER.**

A beautiful pot plant of easy culture; very ornamental.

Pkt. 10c

**CLEMATIS.**

Well known and universally admired climbers, some of the varieties being remarkable for the beauty and fragrance of their blossoms. Nice for covering arbors, verandas, etc., as they cling readily to almost any object. Most of the kinds are hardy, herbaceous perennials, but some little protection in northern latitudes through winter is advised. Will do well in any garden soil. Height, 15 feet. A fine mixture of varieties.

Pkt. 10c

**CLEOME, or SPIDER PLANT.**

Better known in the West as "Rocky Mountain Bee Plant." It is the emblem flower of the Colorado State Bee Keepers' Association. Has a very attractive flower in shades of pink and crimson on tall branching plants. A splendid honey plant. Oz., 20c. Pkt. 5c

**CLIMBING BLACK-EYED SUSAN.** See Thunbergia.**CINERARIA—Hybrida Grandiflora.**

Very attractive and much admired greenhouse plant; perennial; height, 1 to 2 feet.

Pkt. 25c

**CINERARIA—Maritima Candidissima.**

White-leaved; used for bedding, vases, etc. Height, 1 foot.

Pkt. 5c

**COBAEA—Scandens.**

A splendid climbing plant with large purple bell-shaped flowers and elegant tendrils; when well established grows very rapidly, with numerous branches. Height, 15 to 20 feet. Tender perennial.

Pkt. 10c



Japanese Morning Glories.

**PERENNIAL CHRYSANTHEMUM.**

**Maximum.** (Ox-eyed-Daisy.) A free-blooming, hardy perennial, 2 feet high, literally covered with pure white flowers, which are well adapted for cutting, lasting over a week in water.

Pkt. 10c

**Frutescens.** (Marguerite or Paris Daisy.) This variety, under the name of Marguerite, has attained great popularity among florists. The pretty star-shaped white flowers are freely produced, and the plant will grow under almost any circumstances.

Pkt. 10c

**Perennial Japanese.** For late autumn blooming in the house, after the frost has destroyed all the bright colors in the garden, there is no flower to take the place of this finely shaped, double flower produced in profusion. Height, 18 inches. Double, mixed colors.

Pkt. 15c

Plants of Perennial Chrysanthemum can be furnished in all colors. Ask for Prices.



Annual Chrysanthemum.

**EARLY ANNUAL CHRYSANTHEMUM.**

The glorious and showy autumn-blooming chrysanthemums, which are now so much admired and cultivated, have their relatives among the summer annuals, which are easily raised from seed. The plants can be raised by sowing the seed early in the house or frame, and planting them out when the weather is favorable, or the seeds can be sown where the plants are to stand. Mixed.

Pkt. 5c

**Morning Glory****CONVOLVULUS MAJOR—Tall Morning Glory.**

This well known annual is one of the most popular climbers. Of rapid growth, soon covering a fence or trellis with the abundant foliage and bright flowers. A great variety of colors and shades. Height, 15 feet. Hardy annual. Mixed colors. Oz., 15c; ¼ lb., 35c.

Pkt. 5c

**CONVOLVULUS MINOR—Dwarf Morning Glory.**

A trailing procumbent plant with flowers of rich shades of blue, in some specimens rivaling the Pansy in richness of color, finely shaded with yellow and white. In bloom from July till after severe frosts. Height, 10 inches. Half-hardy annual.

Pkt. 5c

**IMPERIAL JAPANESE MORNING GLORY.**

The flowers are of immense size and of strong colors. Soak seed before planting. Mixed colors. Oz., 25c. Pkt. 5c

**FANCY JAPANESE MORNING GLORY—Fringed.**

The perfection of Morning Glories. Immense flowers, often as big as a saucer. The colors, shadings and markings of the flowers are limitless. The foliage is luxuriant, distinct and varied, green, silvery and yellow. The robust vines attain a height of 30 to 40 feet in one season. Soak the seed in lukewarm water for a few hours before planting.

Mixed colors. Pkt. 10c

**DOUBLE MORNING GLORY.**

The variety of colors is almost limitless, running from the darkest reds and purples through all shades of blue, and pink to snow-white. Flowers are streaked, mottled, striped, marbled and bordered in wonderful fashion. They are double and semi-double and some are so much fringed as to have the appearance of a double flower.

Mixed Colors.

Pkt. 10c

**Cosmos**

Are unquestionably very handsome flowers, and there is but one objection to their giving general satisfaction, and that is their late flowering habit. The plants require a very long time to develop, and that brings their flowering season late in the fall. This objection will not be found in our

"early flowering" strain. Seed sown in the open ground in the beginning of May will produce blooming plants in August, and they will continue to flower late in the fall. We know of no single flower that is as handsome as the Cosmos, while for keeping qualities when cut they are unexcelled. Early flowering. Mixed. Pkt. 5c

Yellow.

Pkt. 5c

Crimson.

Pkt. 5c

White.

Pkt. 5c

Pink.

Pkt. 5c

Giants of California.

Mixed.

Pkt. 5c



Cosmos.



**MIXED CLIMBERS.**

In this we have included all the popular quick-growing climbing annuals, such as *Ipomoeas*, *Nasturtiums*, *Sweet Peas*, *Japanese Hop*, *Cypress Vines*, etc. Just the thing for covering old fences, arbors, etc.  $\frac{1}{2}$  oz., 25c. Pkt., 10c.

**COIX LACHRYMA.** See Job's Tears.

**COLEUS—New Hybrids.**

Probably there is no other kind of foliage plant so well known and universally admired as the *Coleus*. It is one of the most beautiful of our variegated perennial foliage plants for the greenhouse or garden decoration, ribbon-beds, etc., of rapid growth and easy culture. Tender perennial. Height, 1 to 2 feet. Pkt. 25c.

**COLUMBINE.** See *Aquilegia*.

**CONVALLARIA.** See *Lily of the Valley*.

**COREOPSIS LANCEOLATA.**

Flowers large, single, golden yellow. For generosity of blooms there is nothing to compare with it, and it will bear cutting from better than any other plant; at the same time it is always graceful. Perennial. It can be grown freely from seed, and does well when treated as an annual. Pkt. 10c.

**CORN FLOWER ASTER.** See *Stokesia*.



Coxcomb.

**COXCOMB—Celosia Cristata.**

A highly ornamental plant, producing crested heads of flowers, somewhat resembling a cock's comb. There are many colors and shapes, but the scarlet and crimson are the most brilliant and rich. Height, 1 to 3 feet.

**Dwarf.** Mixed colors.

**Feathered.** Mixed.

Pkt. 10c

Pkt. 10c.



Cypress Vine.

**CYCLAMEN.**

Well known and universally admired tuberous rooted plants, producing exceedingly handsome red and white flowers. Tender perennial. One foot high.

**Persicum**, mixed, of great beauty and many colors.

Pkt. 15c.

**Giganteum**, mixed, characterized by beautiful foliage and profuse bloom; each flower is from 2 to 2½ inches long. Very choice. Pkt. 25c.

**CYPRESS VINE—Ipomoea Quamoclit.**

One of the most beautiful climbers; fine, delicate cut foliage, dotted with small, scarlet, star-shaped flowers. For covering pillars, trellis work, etc., it is not surpassed for grace and beauty. Height, 8 feet. Tender annual.

**Mixed colors.**

Pkt. 5c.

**DAISY--Bellis Perennis**

Charming little plants for edging and borders. The flowers are quilled and flat-petaled, with white, pink, red and variegated. Not all will come double from the seed, and the single ones should be pulled out. Height, six inches. Tender perennial.

**Double**, mixed.

Pkt. 10c.

**Longfellow**, double, pink.

Pkt. 10c.

**Snowball**, double, white.

Pkt. 10c.



Shasta Daisy.

**SHASTA DAISY--BURBANKS**

**Alaska**, pure white.

Pkt. 10c.

**California**, pale yellow color turning to white.

Pkt. 10c.

**Westralia**, flowers semi-double, creamy color.

Pkt. 10c.

**Mixed.**

Pkt. 10c.

**OX-EYED DAISY.** See *Chrysanthemum Meximum*.

**PARIS DAISY.** See *Chrysanthemum Frutescens*.

**Dahlia**

This exceedingly beautiful genus comprises an almost endless number of varieties, all more or less showy in the flower garden in the late summer, when most other flowers have faded. They are all of easy cultivation, growing freely in most any soil, from seed sown in the spring. If sowed early in the house and transplanted in June will bloom the first year. Height, 3 to 5 feet. Half-hardy perennial. **Finest double mixed,**

Pkt. 10c.

**Finest single, mixed**

Pkt. 10c.

For *Dahlia* Bulbs, see back part of this catalogue.



Dahlia—Double.



Delphinium.

**DELPHINIUM—Perennial Larkspur.**

A very attractive hardy plant for corners of yard, also center of flower beds. We furnish seed of assorted colors.

**Single**, mixed.

Pkt. 10c.

**Double**, mixed.

Pkt. 15c.

**DOLICHOS.** See *Hyacinth Bean*.

**DIANTHUS.** See *Pinks* and *Sweet William*.

**DIGITALIS—Fox Glove.**

Showy and useful plant for the border; flowers borne in tall spikes, bell or thimble shaped, of all colors; new plants may be obtained by dividing the roots. Height, 2 feet. Hardy biennial. Mixed colors. Pkt. 5c.



**ESCHSCHOLTZIA.** See California Poppy.

### EVERLASTING FLOWERS.

**Mixed.** This consists of all the popular Everlastings. Pkt. 10c.

### FEVERFEW—*Matricaria*.

A free-flowering, half-hardy perennial plant growing 18 inches in height. Seed sown early in the spring in the open ground will produce flowers by fall. The plant throws up numerous stems, terminating in clusters of very double, pure white flowers, three-quarters of an inch in diameter. These are desirable for cut flowers. Plants bloom freely when grown in pots in a cool room. Pkt. 10c.

**FLAX—*Scarlet*.** See Linum.

### FORGET-ME-NOT—*Myosotis Alpestris*.

This beautiful little flower is too well known to require description or recommendation. The delicate blue flowers appear all summer. Height, 6 inches. Hardy perennial. Pkt. 10c.



Globe Amaranth.

Four O'Clock.

### FOUR O'CLOCK—*Marvel of Peru*.

A handsome plant, making an attractive display of its many colored flowers from the middle of July till frost. The blossoms are marbled and spotted in the most diversified manner, the same plant producing different colors; some branches will grow flowers of a single color only, while others will have stripes. The leading colors are red, white and yellow, with stripes and variegations of all three. Height, 2 feet. Hardy annual. Pkt. 5c.

**Mixed, oz., 15c.**

### FUCHSIA.

The varieties of Fuchsias are now numbered by hundreds, and some are exceedingly beautiful. They are as easily grown from seed as cuttings, and from seed many improved varieties are obtained. Height, 1 to 3 feet. Pkt. 25c.

**Double and Single, mixed.**

### GLOBE AMARANTH—*Gomphrena*.

An excellent everlasting or immortelle flower, globe shape, purple, orange and variegated. Retains its shape and color when dried; also good for cutting as fresh flower. Height, 10 inches. Tender annual. Pkt. 5c.

**Mixed.**



Geranium.

### GERANIUM—*Zonale*.

Probably the Geranium is better known and more universally admired than any other plant grown. The constant succession and durability of blooms till frost comes, the brilliancy of the scarlet and other colors, and the exquisite markings of the leaves of some of the varieties, render them very desirable for pot culture or bedding. No garden

seems complete without a bed of them, and in every collection of conservatory or parlor plants we are sure to find the Geranium. Propagation by seed is the only way to obtain new varieties. Height, 1 to 2 feet. Half-hardy perennial. **Mixed.** Pkt. 15c.

### GAILLARDIA.

A showy annual, with brownish-red flowers, bordered with yellow and white, blooming strongly through the season, and until after heavy frosts. Height, 18 inches. Pkt. 5c.

**Single, mixed colors.**

**Grandiflora.** Large flowered. Perennial; very fine mixed. Pkt. 10c.

### GILIA.

Their size, shape and delicate color make them useful for bouquets. In bloom from the first of July till after severe frosts have destroyed most of the other annuals. Height, 18 inches. Hardy annual. **Mixed colors.** Pkt. 5c.

### GLOXINIA—*Hybrida*.

Greenhouse perennial plants, producing rich and beautifully colored flowers. They deserve extensive cultivation. **Mixed.** Pkt. 25c.

### GODETIA.

A beautiful plant of neat, dwarf, compact habit, with a profusion of rich carmine flowers, produced in a succession of blooms from August till frost. Height, 1 foot. Hardy annual. **Mixed.** Pkt. 5c.

## GOURDS

A great variety of curiously formed and marked fruits; the vines are of rapid growth and with luxuriant foliage; adapted for covering screens, arbors, etc. Height, 10 to 20 feet. Tender annual.

### Dish Cloth or Luffa.

A rapid climber, having long, green fruit, the inside of which is a fibrous mass, which, when the shell and seeds are removed, make an excellent substitute for a bath sponge. Oz., 30c. Pkt. 5c.

### Japanese Nest Egg.

White, egg-shaped, does not crack and is not injured by heat or cold. Oz., 25c. Pkt. 5c.

### Dipper or Siphon.

Useful for dippers. Oz., 25c. Pkt. 5c.

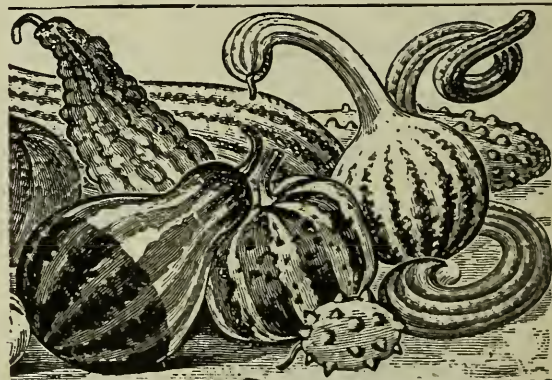
### Sugar Trough.

Have thick, tough shells; very durable. Oz., 20c. Pkt. 5c.

**Hereules' Club.** The longest gourd grown. Oz., 25c. Pkt. 5c.

**Mock Orange.** Golden yellow. Oz., 25c. Pkt. 5c.

**All Kinds, Mixed.** ½ oz., 15c; oz., 25c. Pkt. 5c.



Mixed Gourds.

**GLYCINE SINENSIS.** See Wistaria.

### GYPSOPHILA.

Small, fragrant flowers, borne on long feathery stems. No flower adds more of light and grace to a bouquet than this, and when once grown will be found indispensable. In bloom through the summer from the first of July till frost. Although not belonging to the immortelle class, the flowers dry finely and are very desirable for winter bouquets. Height, 1 foot.

**Elegans—Angel's Breath.** Delicate pink. Pkt. 5c.

**Paniculata—Baby's Breath.** Pure white perennial. Pkt. 5c.

### HELICHRYSUM.

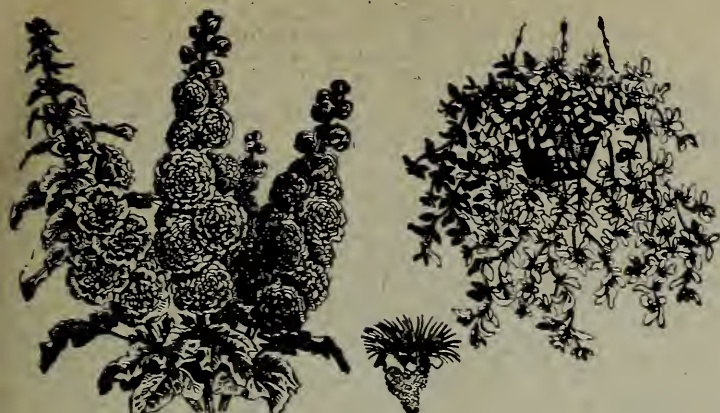
One of the best of the immortelles; good shape, size and a variety of desirable colors—yellow, sulphur, cream, white, pink, rose, red and crimson. Retain their natural shape very perfectly when dried. In bloom from July till destroyed by frosts. Height, 18 inches. Hardy annual. **Mixed.** Pkt. 5c.

**HELIANTHUS.** See Double Sunflower.

### HELIOTROPE.

A well known popular greenhouse plant, fine for bedding, vases or baskets and exquisite for pot culture in winter. Flowers purple, borne in trusses, and exceedingly fragrant. Height, 1 foot. Half-hardy perennial. Pkt. 10c.





Hollyhock.

Ice Plant.

## HOLLYHOCK

A great variety of brilliant colors, combining richness and delicacy in a remarkable degree; flowers large and densely double, remaining a long time in bloom. Is one of the best and most ornamental of the perennials. Height, 5 feet.

**Prize, double, mixed.** Pkt. 10c.  
**Separate Colors, double, white, pink, yellow, maroon, red, each** Pkt. 10c.

### Hollyhock Allegheny.

This is a species that will bloom the first year if started in the house in March and transplanted in May. The petals are fringed and the flowers of different colors. Pkt. 10c.

### Hollyhock Annual.

Will bloom in August or beginning of September if sown in April. Flowers are single, semi-double and double. Mixed colors. Pkt. 10c.

## HIBISCUS—Africanus.

A showy, hardy annual, cream color with rich brown center. Height, 2 feet. Pkt. 5c.

## HYACINTH BEAN—Dolichos Lablab.

Splendid climber, with abundant clustered spikes of purple and white flowers, which are followed by exceedingly ornamental seed-pods. It is of rapid growth and often runs 20 feet in a season. Height, 10 to 20 feet. Tender annual. Pkt. 5c.

## ICE PLANT—Mesembryanthemum Crystallinum.

Dwarf plant of procumbent or trailing habit, finely adapted for vases, rock work, etc. The surface of the foliage is covered with panicles resembling crystals of ice glistening in the sun, forming a curious and attractive display. Height, 6 inches. Tender annual. Pkt. 5c.

**INSECT POWDER PLANT.** See Pyrethrum.

**IPOMOEA QUAMOCLIT.** See Cypress Vine.

**IPOMOEA MEXICANA.** See Moon Flower.

## IVY—Hedera.

For a climbing plant in the garden to do duty as a screen for an old well or building, or to adorn either when new, it is a well known and favorite plant. For indoor winter decoration Ivy is unequalled, as it can be trained in any desired form, and will bear any amount of hardship and bad usage. Height, 30 to 60 feet. Perennial. Pkt. 10c.



Japanese Hop.

Lobelia.

## JAPANESE HOP—Humulus Japonicus.

A rapid growing, perfectly hardy, annual climber of the hop family, of the easiest culture and indispensable for covering unsightly objects, or verandas, trellises, etc. Sows itself after the first year. Variegated leaves Pkt. 10c.

## KOCHIA SCOPARIA—Mexican Burning Bush.

An ornamental, quick-growing annual, forming a symmetrical bush covered with countless minute red flowers. The plant dies soon after blooming. Pkt. 10c.

## JOB'S TEARS—Coix Lachryma.

Curious ornamental grass from East India, with broad corn-like leaves and seeds of light slate color, wonderfully lustrous. Valuable for the formation of winter bouquets in connection with everlasting flowers, and strings of handsome beads are formed from the seeds. Height, 3 feet. Hardy annual. Oz., 25c; ¼ lb., 75c. Pkt. 5c.

## KUDZU VINE—Jack-and-the-Bean-Stalk Vine.

The most remarkable rapid growing hardy perennial. Starts into growth slowly, but after a few weeks' time grows almost beyond belief. Nothing its equal for porches, arbors, old trees, etc. Pkt. 10c.

**For Roots,** see page 58.

## LANTANA—French Hybrids.

Rapid growing plants; the flowers are borne in Verbenalike heads, embracing every shade of pink, purple, orange and white. Half-hardy perennial. Height, 3 feet. Mixed. Pkt. 10c.

## LARKSPUR—Delphinium.

A fine variety of colors—shades of blue, red and others, striped and mottled. The flowers are produced in spikes, which are continually pushing out from the main stem and branches, furnishing an abundance of bloom through the season. When grown in vases makes a fine display. Height, 2 feet. Hardy annual. Pkt. 5c.

**Double tall mixed.** Pkt. 5c.  
**Double dwarf mixed.** Pkt. 5c.



Mexican Burning Bush.

Momordica.

## LINUM. Grandiflorum Rubrum—Scarlet Flax.

Distinguished for its brilliant colored flowers, which are deep crimson with black center saucer shaped, and very conspicuous in bed and border. The foliage of the plant is slender and delicate, and the flowers produce very little seed. Height, 1½ feet. Hardy annual. Pkt. 5c.

**LOVE-IN-A-MIST.** See Nigella.

## LILY OF THE VALLEY—Convallaria Majalis.

The Lily of the Valley is a sweet little plant, thriving in common soil. It will do well in any shady situation where few other plants will thrive; can be multiplied by dividing roots or by seed. Hardy perennial. Height, 1 foot. Pkt. 10c.

**For LILY PIPS,** see page 54.

## LOBELIA—Crystal Palace.

An elegant and useful class of plants of dwarf, compact growth, bearing a profusion of delicate blue flowers. In bloom through the summer and autumn. Make a neat and effective edging for Geraniums and ornamental leaved plants; pretty for baskets and vases and piazza decorations. Height, 6 inches. Half-hardy annual. Pkt. 10c.

**MARGUERITE.** See Chrysanthemum.

## MAURANDYA.

This vine is one of the best for window garden and almost equal to Smilax in delicate beauty. It is very hardy, blooms profusely and is very easily grown from seed and roots readily from cuttings. Pkt. 10c.

**MARVEL OF PERU.** See Four O'Clock.

**MESEMBRYANTHEMUM.** See Ice Plant.

## MIMULUS.

These flowers are remarkable for their rich and beautiful markings and spots; well adapted for vases, pots and baskets, and also for open culture in the garden. Height, 1 foot. Half-hardy perennial. Pkt. 10c.

**Moschatus.** Musk Plant. Pkt. 10c.  
**Tigrinus.** Monkey Flower. Pkt. 10c.

## MOMORDICA CHARANTIA—Balsam Pear.

Very curious climbing plant with ornamental foliage; fruit golden yellow, warted, and when ripe opens, showing the seed and its brilliant carmine interior. Annual. Height, 10 feet. Pkt. 5c.





Marigold.

**MARIGOLD.**

A showy plant of compact, symmetrical growth, handsome foliage and a profusion of flowers of brilliant shades of yellow, finely variegated and striped with dark, rich colors of maroon and brown. Flowers are about an inch in diameter, full double to center, and cover the plant profusely. Height, 1 foot. Half-hardy annual.

French, Double Dwarf.

Pkt. 5c.

African, Double Tall.

Pkt. 5c.

**MIGNONETTE--Reseda**

One of the best known and most popular flowers, indispensable for the garden; is suitable to almost any location and soil, furnishing its fragrant blossoms continuously through the summer and until after severe frosts. Height, 1 foot. Hardy annual.

Grandiflora. Sweet, large flowering. Oz., 15c. Pkt. 5c.

Golden Queen. Golden yellow. Oz., 40c. Pkt. 5c.

Giant White. Pyramidal, tall growing. Oz., 40c. Pkt. 5c.

Giant Machet. This is the popular strain used by florists. Oz., 75c. Pkt. 10c.

MOSS ROSE. See Portulaca.

MIMOSA PUDICA. See Sensitive Plant.



Mourning Bride.



Mignonette—Machet.

**MOURNING BRIDE—Scabiosa.**

One of the best flowers for bouquets; plants of dwarf habit and compact; the flowers borne on long, wiry stems. A great variety of colors from white to very dark purple—almost black. In bloom from August till after severe frosts. Height, 18 inches. Hardy annual.

Dwarf, double, mixed.

Pkt. 10c.

**MOON FLOWER—Ipomoea Noctiflora Mexicana.**

The true Moon Flower is the most vigorous of all the summer climbers; a single plant can easily be made to cover, by August 15, a trellis 30 to 50 feet high and 6 feet broad, with a dense mass of leaves, studded every night or cloudy day with hundreds of beautiful white and wax-like flowers 4 to 6 inches in diameter. Height, 30 to 50 feet. Tender annual.

Pkt. 10c.

MORNING GLORY. See Convolvulus.

MYOSOTIS. See Forget-Me-Not.

**NEMOPHILA.**

This popular plant is to be found in almost every garden, and has secured a place in the heart of all lovers of flowers. Of dwarf, spreading habit, it is well adapted to border or pot culture. The flowers are exquisitely colored, blotched and spotted; they are quite apt to sport in an endless variety of shades from black and blue to lighter colors. Height, 6 inches. Hardy annual.

Mixed colors.

Pkt. 5c.

**NICOTIANA SANDERAE.**

The shape of the flower resembles that of the *Nicotiana Affinis*, but the flower tube is short and stout. The greatest beauty is the brilliancy of its carmine-red flowers, which are produced in the greatest profusion and fully expanded during the day. The fragrance is not so pronounced as that of *Nicotiana Affinis*, but is deliciously sweet.

Pkt. 10c.



Nicotiana Affinis.

**NICOTIANA AFFINIS.**

A handsome genus of garden plants of the tobacco family, which are noted for freedom and fragrance of their bloom. Half-hardy annual, 3 feet high. Flowers white, salver shaped, having long, tubular corollas, and are of exquisite fragrance. Deserves a place in every garden. Pkt. 10c.

**NIGELLA—Love-in-a-Mist.**

A showy annual with fine cut foliage and curiously formed double flowers of light blue color. The form and color render it very desirable for bouquets. Height, 1 foot.

Double, mixed colors.

Pkt. 5c.

**ORNAMENTAL GRASSES.**

Ornamental grasses are very useful for cutting when fresh for summer bouquets, and also dry well for working with everlasting flowers for winter bouquets. This assortment includes the most delicate and graceful varieties.

Stipa Pennata or Feather Grass.

Pkt. 5c.

Lagurus Ovatus.

Pkt. 5c.

Gynarium or Pampas Grass. Forms elegant plumes.

Pkt. 5c.

All Kinds. - Mixed.

Pkt. 10c.

**OXALIS.**

Very attractive and beautiful plants, with richly colored flowers, suitable for rock work and rustic baskets. Half-hardy perennial. Height, 6 inches. Mixed.

Pkt. 10c.

**PASSIFLORA—Passion Flower.**

A most interesting and well known order of climbers, bearing singularly beautiful flowers. They are the pride of South America and West Indies, where the woods are filled with the species, which climb about from tree to tree bearing flowers of striking beauty.

Passiflora Coerulea.

Pkt. 10c.

**PETUNIA.**

One of the best flowers for a splendid display throughout the entire season. Beautiful new colors, striped and marked in the most diversified manner. The ease of culture, profuse and continuous blooms, adaption for different styles of growth—indoors and in the garden—render the Petunia one of the most valuable of the annuals and entitled to a generous share of the space in every garden. In bloom from the first of July to October. Half-hardy perennial.



Petunia—Striped and Blotched.

Double Mixed. Saved from choice double flowers, always a few come single.

Pkt. 25c.

Giants of California. Produce immense large single blossoms.

Pkt. 15c.

Striped and blotched. Single mixed.

Pkt. 5c.



# NASTURTIUMS



This well known annual is one of the best for trellis and arbor decorations; flowers of a great variety of rich colors, striped and spotted with different shades. Is excellent for vases and baskets; also does finely when grown in beds without trellis support; produces an abundance of flowers from the first of July until frost. Height, 6 to 10 feet.

## TALL NASTURTIUMS

- |  |          |
|--|----------|
| Heinemani. Silky bronze chocolate. Oz., 15c.                     | Pkt. 5c. |
| Coccineum. Bright orange scarlet. Oz., 15c.                      | Pkt. 5c. |
| Schillingi. Bright yellow, maroon blotches. Oz., 15c.            | Pkt. 5c. |
| Pearl. Cream white. Oz., 15c.                                    | Pkt. 5c. |
| Regelianum. Brownish violet. Oz., 15c.                           | Pkt. 5c. |
| Atropurpureum. Dark crimson. Oz., 15c.                           | Pkt. 5c. |
| Hemisphaericum. Straw color, rosy blotched, fine. Oz., 15c.      | Pkt. 5c. |
| King Theodore. Crimson, dark leaved. Oz., 15c.                   | Pkt. 5c. |
| Mixed. All colors. ½ oz., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 35c. | Pkt. 5c. |

## LOBBIANUM NASTURTIUM.

These constitute, without doubt, some of the finest of our annual climbers; they are as easily grown as the common Tall Nasturtium, which they far surpass in remarkable brilliancy of their flowers, and also in height of vines and rapidity of growth.

Many Colors. Mixed. ½ oz., 10c; oz., 15c. Pkt. 5c.



## NEW IVY LEAVED CLIMBING NASTURTIUM.

This is the most distinct and showy variety, differing from all other Nasturtiums in both foliage and flower. The plants are of strong running growth; the leaves are deep rich green, veined with silvery white, closely resembling in form and veining those of the hardy English Ivy. Oz., 20c. Pkt. 5c.

## NEW FRENCH NASTURTIUM, "CHAMELEON."

This new Nasturtium is a most remarkable advance in this brilliant family. We find that in richness and variety of colors it surpasses any other strain, and is also unique in bearing flowers of quite distinct coloring on one and the same plant—some clear, deep crimson, others blotched on light ground, and others beautifully mottled. We furnish both Tall and Dwarf separately. Oz., 20c. Pkt. 5c.

## MADAM GUNTHER'S HYBRIDS.

A grand strain of tall growing Nasturtium, containing many colors not found in any other mixture. Oz., 15c. Pkt. 5c.

## DWARF NASTURTIUMS

A bed of Dwarf Nasturtiums is very desirable for borders along walk ways, etc. They are in constant bloom. Grow about one foot high.

- |   |          |
|---|----------|
| Brilliant. A handsome scarlet. Oz., 15c.                    | Pkt. 5c. |
| Ruby King. A blue tinted red. Oz., 15c.                     | Pkt. 5c. |
| Pearl. Creamy white. Oz., 15c.                              | Pkt. 5c. |
| King Theodore. Maroon. Oz., 15c.                            | Pkt. 5c. |
| Lady Bird. Orange yellow, red spots. Oz., 15c.              | Pkt. 5c. |
| Empress of India. Dark red, very dark leaved. Oz., 15c.     | Pkt. 5c. |
| Purpureum. Crimson. Oz., 15c.                               | Pkt. 5c. |
| Mixed Colors. ½ oz., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 40c. | Pkt. 5c. |
| Spotted Varieties Mixed. Oz., 15c.                          | Pkt. 5c. |

Six packets of any varieties of Nasturtiums except Variegated Leaved for 25c; 12 for 40c. Five 1-oz. packages for 50c.

## NASTURTIUMS VARIEGATED LEAVES.

The foliage of these new Nasturtiums is strikingly beautiful, rendering the plants very ornamental, even when not in bloom. Some of the leaves are ½ to ¾ white and yellow, others are mostly green but blotched and striped with yellow and white, and others are mostly pure yellow with stripes of green. When in bloom the effect is doubly enhanced.

Tall, mixed colors. Pkt., 10c; oz., 25c.

Dwarf, mixed colors. Pkt., 10c; oz., 30c.



Phlox Drummondii.



Portulaca.

## PHLOX DRUMMONDII

No flower excels this in all the qualities that make a popular annual. Brilliant and varied colors, continuous and profuse bloom, being one of the last to succumb to the frosts of late October. It is excellent for bouquets, all combine to place it in the list of the best half dozen flowers for garden decoration. Height, 18 inches..

- |  |           |
|--|-----------|
| Phlox Drummondii. Mixed. Oz., 60c.                               | Pkt. 5c.  |
| Phlox Drummondii, Grandiflora. Large flowering, mixed. Oz., 80c. | Pkt. 10c. |
| Phlox Alba. White. Oz., \$1.00.                                  | Pkt. 10c. |
| Perennial Phlox. Mixed.  | Pkt. 10c. |
| Phlox. Star of Quedlinburg. Star-shaped flower. Mixed.           | Pkt. 10c. |

## PORTULACA—Rose Moss.

There are scarcely any flowers in cultivation that make such a dazzling display of beauty as a bed of many-hued, brilliant colored Portulacas. They are in bloom from about the first of July until killed by frost in autumn. Plant in open ground after it has become warm, in light soil, and in a dry situation. If the beds have a full exposure to the sun the ground will be covered with plants and the effect beautiful. Tender annual. Height, 6 inches.

- |                |           |
|----------------|-----------|
| Double. Mixed. | Pkt. 10c. |
| Single. Mixed. | Pkt. 10c. |



## PANSIES

Next to the Rose there is no other plant which enjoys such universal popularity as the Pansy. It is a favorite with all, having a larger assortment of colors than most other flowers. It is a hardy biennial; blooms continuously from spring until late in the fall, and will, if slightly covered, bring fine results the second year.

No garden, however small it may be, should be without a bed of Pansies.

### Trimardeau.

Very large flowered variety. An entirely distinct and beautiful race with flowers of the richest and most varied shades of color. Plants of vigorous, compact growth. The flowers, which possess unusual substance and consistency, are each marked with three large blotches or spots.

White. With dark center.	Pkt. 10c.
Black. King of Blacks.	Pkt. 10c.
Yellow. A clear yellow.	Pkt. 10c.
Blue. Azure blue.	Pkt. 10c.
Purple. Deep royal purple.	Pkt. 10c.
Bronze. A golden bronze.	Pkt. 10c.
Lord Beaconsfield. Lavender and purple.	Pkt. 10c.
Mixed. All colors.	Pkt. 10c.

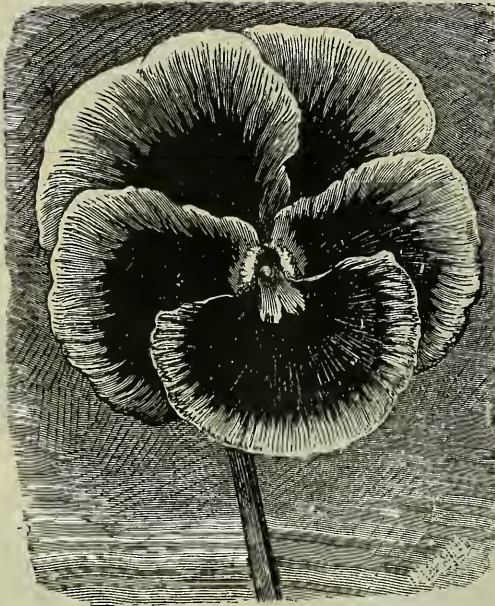
One packet of each of the seven varieties for 50c.

### Bugnot's Very Large Stained, Mixed.

A species with extra large, five blotches; plants vigorous, with short stalks bearing well above the foliage; flowers of fine form and substance. Extra fine. Pkt. 15c.

### Cassiers' New Giant Odier.

Extra large flowers of the showy and popular Odier type, being all three or five-spotted on backgrounds of rich glowing colors in many distinct shades. Pkt. 15c.



### Barteldes' Giant Market Pansies.

A mixture of the very best grown in different parts of the world. Not excelled by any for size and fine colorings. Pkt. 20c.

### Barteldes' Triumph of the Giants.

These Pansies, though not as rich in coloring as Barteldes' Giant Market, are extra large, measuring 2½ to 3 inches in diameter. The flowers are perfectly round and borne on long stems, a decided advantage over other sorts. The plants are compact in habit, forming perfectly round bushes with strikingly pretty foliage, while the flowers are brilliant and varied in colors and abundantly produced. Pkt. 15c.

### German Imperial Mixture.

While the giant flowered are great favorites, they do not carry all the shades and colors which are found in our German Mixture. This is the florists' popular strain. Mixed. ¼ oz., 75c. Pkt. 10c.

### Good Mixed.

Consisting of many popular colors of ordinary strains. Oz., 50c. Pkt. 5c.

### Sweet-Scented.

This lovely new class is the result of a hybridization or crossing of the Pansy with the Sweet Violet, retaining the delightful violet perfume, with Pansy blossoms of good substance and in many colors. They include pure white, yellow, black, maroon, orange and lavender; also striped, blotched, feathered, etc. Pkt. 15c.

### PICOTEE.

Very much like Carnation, as fine and more delicate in its coloring; perennial; height, 18 inches. German, mixed. Pkt. 10c.

## PINKS--Dianthus

Splendid large flowers of the richest and most brilliant colors and markings; constantly in bloom from July till after severe frosts; the first and also the second year. No flower excels this genus for a brilliant show of colors through the summer. Height, 1 foot.



Double Pinks.

### Chinensis, Double China.

Mixed. ¼ oz., 15c; oz., 35c. Pkt. 5c.

### Laciniatus, Single Fringed.

Mixed. ¼ oz., 25c; oz., 75c. Pkt. 5c.

### Imperialis, Double.

Mixed. Oz., 50c. Pkt. 5c.

### Heddewigii, Double.

Mixed. Oz., \$1.00. Pkt. 5c.

### Heddewigii, Single.

Mixed. Oz., 75c. Pkt. 5c.

### Albus Flore Pleno.

Double white. Pkt. 5c.

### Plumarius.

Perpetual, or June Pink. Pkt. 5c.

## POPPY

### SINGLE AND DOUBLE, MIXED.

A grand collection of the annual varieties. Oz., 20c. Pkt. 5c.

### FAIRY.

The flowers are perfectly double, of large size and magnificent form. In colors the grand, large flowers are of pure white, glowing scarlet, light lilac, scarlet with white and black, rose and deep maroon. Annual. Mixed. Pkt. 5c.

### THE SHIRLEY.

They are similar in every way to the Wild Scarlet Field Poppy of England and the Continent, but the range of colors is so varied that scarcely two will be found alike. Annual. Pkt. 5c.

### ICELAND—Perennial.

The delicate, fragrant flowers are exceedingly beautiful, and with their long stems are well suited for cutting. The plants are perfectly hardy, easily cultivated, and the lovely white, yellow and orange-red flowers are in bloom from early summer until fall. Hardy perennial, blooming the first year from seed. Pkt. 10c.



Poppy—Double Fairy.

Picotee.

### NEW ORIENTAL HYBRID—Perennial.

For brilliancy of colors there is nothing to equal these Oriental Poppies. The flowers are of enormous size, often measuring over six inches in diameter. One of their most valuable qualities is that they are perfectly hardy perennials, living through winters with but little protection and increasing in size and beauty from year to year. Pkt. 10c.





# PRIMROSE—Primula.

These are, perhaps, the most desirable of all house-blooming plants. They are in almost constant bloom all winter, and if the plants be transferred to the border they will bloom nearly all summer. Though perennial, new plants flower more freely, and seed should be sown every year. Give them a long time for growth before flowering, and do not force the young plants, but simply protect them from frost and damp, cutting winds. Height, 1 foot.

**Obconica.**

**Sinensis.** Mixed.

Pkt. 10c.

Pkt. 20c.



Salpiglossis.



Primrose.

# PYRETHRUM—Insect Powder Plant.

Practical entomologists tell us they have found an effective and safe insecticide in the Persian Insect Powder. This is the dried and powdered flowers of the Pyrethrum Roseum, and it is certain death to Plant Lice, Flies, Cabbage Worms and nearly every form of insect life. It is harmless to man, but when diluted with ten times its bulk of flour, kills Cabbage Worms and other insects. Height, 1 foot.

**Roseum.** Flowers 2 inches in diameter, carmine with yellow center. Pkt. 10c.

**Aureum.** This is the beautiful bedding plant with golden leaves, called "Golden Feather." Pkt. 10c.

# ROSE, NEW DWARF—Rosa Multiflora.

Height, 20 inches. They commence blooming when about 3 inches high; like annuals, they germinate, flower and produce seed within a year. Blooming is continuous throughout the summer, but is naturally more abundant the second season. The flowers are single, semi-double and double in almost equal proportions, and present almost all the variations of color found in other roses. A young plant raised from seed sown January 15 expanded its first flowers 3 months later. Pkt. 15c.

**RAGGED SAILOR.** See Centaurea.

**RESEDA ODORATA.** See Mignonette.

**RICINUS.** See Castor Bean.

**ROSE CAMPION.** See Agrostemma.

# SALPIGLOSSIS.

A beautiful annual that deserves to be more widely known; when once grown in the garden will be one of the first to be chosen for the next year. Flowers of the richest colors—blue, crimson, yellow, purple, scarlet, etc., with texture like rich velvet; each petal beautifully penciled. Splendid for bouquets. Height, 2 feet. Mixed colors. Pkt. 5c.



Salvia.



Sensitive Plant.

# SALVIA—Coccinea.

The Salvia or Scarlet Flowering Sage is a very ornamental plant, flowering in spikes, and continues in bloom in the open ground till frost, when the plants can be removed to the greenhouse and they will continue in bloom a long time. This variety is of the dwarf habit, and the spikes of flowers are not so large as some of the greenhouse sorts. Height, 1½ feet. Tender annual. Pkt. 10c.

**SCABIOSA.** See Mourning Bride.

# SCHIZANTHUS.

This annual should be more widely cultivated. Flowers different shades of blue, curiously cut and delicately spotted; laced with crimson, white, yellow, etc. Adapted for garden and indoor culture. Excellent for bouquets. Height, 18 inches.

**Mixed Colors.**

Pkt. 5c.

# SENSITIVE PLANT—Mimosa Pudica.

A curious plant, manifesting sensation to the touch of any object that jars or stirs the leaves or branches; the stalks immediately drooping or folding together, as if possessed of life and an over-supply of nerves, affording a source of amusement for the little and large folks. Height, 1 foot. Tender annual. Pkt. 5c.

**SILENE.** See Catchfly.

# STOKESIA CYANEA.

The Cornflower or Stokes' Aster.

This is one of the most charming and beautiful native hardy plants. The plant grows from 18 to 24 inches high, bearing freely, from early June until frost, its handsome lavender-blue Centaurea-like blossoms, each measuring from 4 to 5 inches across. Pkt. 10c.

# SUNFLOWER—Helianthus.

**Globosus Pistulosus.** An exceedingly double variety, adapted by its stately growth for a back-ground to the lawn, or a screen to hide unsightly places. It is also raised as an absorbent of miasma in damp or ill-drained situations, thus preventing fevers. The flowers are quite attractive. Hardy annual. Oz., 20c. Pkt. 5c.

**Mammoth Russian.** Oz., 10c. Pkt. 5c.

# SMILAX.

No climbing plant in cultivation surpasses this for graceful beauty of its foliage. In cut flowers and for wreathes, etc., it is indispensable to florists. Its hard texture enables it to keep several days after being cut, without wilting. Nothing is finer for clothing statuettes, vases, etc. Height, 10 feet. Tender perennial. Oz., 50c. Pkt. 10c.



Stocks—Large Flowering.



Sweet William.

# STOCKS—Ten Weeks.

Plants grow about one foot high, making a compact bush, covered with splendid spikes of blooms from July till frost. This seed is our own importation from the most celebrated German grower of this flower, saved only from the selected plants, and will produce the largest proportion possible to obtain of large double flowers, in the most brilliant colors and variety. Half-hardy annual. Height, 1 foot.

**German Dwarf Double.** Mixed. ¼ oz., 60c. Pkt. 10c.

**Separate Colors.** White, blue, crimson, purple, yellow. ¼ oz., 75c. Pkt. 10c.

# BROMPTON STOCK.

The Brompton Stock cannot endure our winter, but if plants are grown in the open ground during the summer, in autumn they can be removed to the house, where they will flower well if not kept too hot or dry. Half-hardy annual. Height, 1 foot.

**Mixed.**

Pkt. 10c.

**White.**

Pkt. 10c.

# SWEET WILLIAM—Dianthus Barbatus.

The improved varieties of this popular flower are very beautiful, and should find a place in every garden. A great variety of rich colors, eyed and variegated with other shades, forming large trusses of blooms, remaining a long time in blossom. A bed of Sweet Williams is very attractive the last of June and first of July, at a time when but few other flowers are in bloom. Hardy perennial. Height, 18 inches.

**Single.** Mixed. Pkt. 5c.

**Double.** Mixed. Pkt. 5c.

**SWAN RIVER DAISY.** See Brachycomb.

# SWEET SULTAN—Centaurea Moschata.

A handsome annual with fragrant flowers, borne on long slender stems. Their fragrance and habit of growth adapt them finely for bouquets. In bloom from July till October. Height, 2 feet. Pkt. 5c.

**Mixed.**

Pkt. 5c.



# SWEET PEAS

**GENERAL CULTURE.** Sweet Pea delights in a soil inclined to be clayey and, as the little beauty is a gross feeder, a good supply of well rotted manure should be mixed with the ground. Fall is the best season to prepare the soil. A good many failures have been made by manuring in the spring, for the reason that all pea vines like a moist ground, and the heat originated by the manure, combined with the heat from the sun, is too much for the young vines, which turn yellow and die. The best season to sow the seed is as soon in the spring as the ground can be worked. Late sowing produces rank growth, but few flowers. Dig a trench 1 foot deep by 16 or 18 inches wide and mix in it six inches of top soil with old manure. In this plant your seeds in 2 rows and drop one pea every inch or two; then cover with 2 inches of soil, gradually filling the trench as they grow. One side has to be a little lower to allow surplus water to drain off. Flowers must be picked off every day if you want them to bloom all through the summer. Bone dust and nitrate of soda will hasten the time of flowering.

We are headquarters for strictly high grade Sweet Pea seeds. Our growers give special attention to selecting and cleaning. We have trade from all parts of the United States for our "Columbine" brand of selected strains, which are furnished at prices within the reach of all and as low as the ordinary stocks are priced by many.

## ORCHID FLOWERED VARIETIES

This new type of Sweet Peas is appropriately described as "truly gigantic." The flowers are not only of enormous size but the outer edges of the standard and wings are beautifully crumpled and waved, and are loosely and gracefully set on long, stiff stems. Plants are healthy and vigorous and produce these long stemmed flowers in abundance.

### BLACK KNIGHT SPENCER.

The flowers are very dark color and beautifully waved and crinkled, both standard and wings. The stems are thick and long and carry well either three or four fine blossoms . . . . . Pkt. ½ Oz. Oz.  
\$ .05 \$ .20 \$ .35

### CAPTAIN OF THE BLUES SPENCER.

The flowers are of immense size and always well waved and crinkled. The standard is purplish maroon, the wings bluish purple, showing veins of rosy purple . . . . . .05 .20 .35

### BLANCHE FERRY SPENCER.

This is the favorite pink and white orchid flowered variety. Pale rose standard with white wings.... .05 .20 .35

### KING EDWARD SPENCER.

The enormous flowers are uniformly waved and crinkled to a pronounced degree. The unusually large drooping wings—one and three-eighths inches wide—make the flower appear truly gigantic. The color is dark red and is the nearest approach in color to the popular King Edward VII.... .05 .25 .40

### GAIETY SPENCER.

A fine flower striped with rosy magenta, usually three flowers on a stem. This is a decidedly bright and pleasing variety . . . . . .05 .20 .35

### MRS. ROUTZAHN SPENCER.

It is of immense size, wavy edges, and its long stout stems bear uniformly four blossoms. The color is a beautiful blending of soft straw color, tinted with blush pink and shading to apricot and rose at the edges. . . . . .05 .25 .40

### PRINCESS ALICE SPENCER.

A lovely shade of lavender, strong, vigorous grower, three and four flowers on a stem. The least sportive and best one of this color yet produced. . . . . .05 .20 .35

### WHITE SPENCER.

The white flowers are extremely large and beautiful. The bold standard is crinkled and fluted and its wavy leaves are so folded that the keel is almost hidden. The flowers are borne three and four to the stem and are uniformly well placed. . . . . .05 .20 .35

### MRS. JOE CHAMBERLAIN SPENCER.

A fine bold flower, one of the very largest, heavily flaked or marked with a bright rose on white ground, three and four flowers on a stem. A striking variety . . . . . .05 .20 .35

### PRINCESS KATHERINE SPENCER.

A grand black seeded white of this lovely type, of unusual vigorous growth, three and four flowers on a stem; wavy standard measuring two inches across. . . . . .05 .20 .35

### PRIMROSE SPENCER.

The flowers are well placed, three to four on strong, thick stems. The color is a pronounced primrose or creamy yellow throughout both standard and wings. It is equal in richness of color to The Hon. Mrs. E. Kenyon, which it outranks both in form and size . . . . . .05 .20 .35

### COUNTESS SPENCER HYBRIDS.

A strong, vigorous grower in various colors. . . . . .05 .15 .25

### COUNTESS SPENCER, TRUE.

A clear pink, which deepens at outer edges. . . . .	.05	.15	.25
John Ingman. Rich magenta rose. . . . .	.05	.15	.25
Helen Lewis. Intense rich crimson orange. The flowers are truly of a gigantic size. . . . .	.05	.15	.25
E. J. Castle. Rich carmine rose with salmon shading in the standard . . . . .	.05	.15	.25
Nora Unwin. This charming variety takes its place easily in the front rank of pure white, the flower being bold and wavy. . . . .	.05	.15	.25
Phyllis Unwin. Deep rosy-carmine still larger flower than Gladys Unwin . . . . .	.05	.15	.25
Gladys Unwin. A bold flower of a lovely light pink color. . . . .	.05	.15	.25
Mrs. Alfred Watkins. Flowers beautifully formed and widely spreading of a clear pink color. . . . .	.05	.15	.25



## SWEET PEAS--STANDARD VARIETIES

PRICES: Except where marked, 5c per packet; 6 packets for 25c. 15c per ounce; 3 one-ounce packages for 40c.  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.40. Postpaid.  
Varieties marked (\*) are considered best of their class.



### WHITE.

- Emily Henderson. A persistent bloomer.
- \*Blanche Burpee. A splendid pure white variety.
- Sadie Burpee. Hooded form.
- Montblanc. Earliest and best for forcing.
- \*Dorothy Eckford. The largest and best flower.

### SCARLET.

- \*King Edward VII. The best of all red shades; large, bright scarlet.
- Salopian. Very bright scarlet with large flower.
- Mars. A large and well formed flower.

### PINK AND WHITE.

- \*Earliest of All. This is the standard among florists, as it has no rival for forcing.
- Early Blanche Ferry. A good bloomer.
- Painted Lady. The old favorite of pink and white.

### ROSE.

- \*Prince of Wales. Deep rose, beautifully, hooded, an improved Her Majesty.
- Her Majesty. Large hooded flowers.

### PINK.

- Lady Marie Currie. Fine orange pink, of intense color, splendid for cutting.
- \*Janet Scott. Soft pink, large hooded flowers.
- \*Miss Wilmott. Large orange pink flowers, strong and vigorous.
- Katherine Tracy. A soft but brilliant pink.
- Lovely. A delicate shell tinged with yellow; often 4 flowers on a stem.
- Apple Blossom. Bright rose and pink.
- Prima Donna. A lovely shade of soft pink, very vigorous, usually 4 blossoms to a stem.
- Modesty. White with a tint of pink on the edges.
- Lady Penzance. An attractive orange pink with a medium hooded blossom.

### VARIEGATED AND STRIPED.

- \*Helen Pierce. Blue mottled on pure white. Oz., 20c; pkt., 5c.
- America. Scarlet, striped on white. Large open flowers.
- Gray Friar. Watered purple on white ground.

### LAVENDER AND LIGHT BLUE.

- New Countess. Delicate lavender.
- \*Lady Grisel Hamilton. Very large flower with long stems, standard lavender, wings azure blue.
- \*Mrs. Geo. Higginson, Jr. A clear azure blue.
- Lottie Eckford. Silvery white shaded with lavender.
- Dorothy Tennant. Rosy purple, large size.
- \*Romolo Piazzani. Improved Dorothy Tennant. A fine large variety.

### MAROON.

- \*Othello. Deep maroon and of a rich velvety effect.
- Black Knight. Very deep maroon, an improvement on Boreatton.

### BLUE AND PURPLE.

- Captain of the Blues. Bright purple hue.
- Countess of Cadogan. Flowers open a purple, but soon change to a lilac and then to a blue.
- \*Navy Blue. The large flowers are of a rich violet purple with the effects of a dark navy blue.

### YELLOW.

- \*Hon. Mrs. E. Kenyon. A fine, large, clear primrose.
- Mrs. Eckford. Beautiful shade of light primrose. Very vigorous grower.

**SWEET PEA SEED INOCULATED WITH NITROGEN CULTURE.** Named varieties: White, pink, blue, yellow, variegated, maroon, scarlet, lavender and mixed. 1 oz. pkg., 20c; 4 oz. pkg., 60c. 5 pkgs. of 1 oz., different colors, 80c.

## SWEET PEAS IN MIXTURES

### Our "COLUMBINE" Grade (Mixed)

Nothing better in mixture of varieties and should not be compared with ordinary mixtures on the market. We mix in all our choice varieties. Oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.40.

**LIGHT COLORS ONLY.** Mixed from named varieties. Oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c. Pkt., 5c.

**RED, WHITE AND BLUE MIXTURE.** Consists of Salopian, Blanche Burpee and Navy Blue mixture. Try an ounce at least. Oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c. Pkt. 5c.

### Dwarf Sweet Peas--Cupid

Ten inches high. A dwarf variety that is suitable for pot culture, hanging baskets, etc. Blossoms are smaller than ordinary tall varieties. Oz., 15c. Pkt. 5c.

**White Cupid.** Pure white blossoms.

**Pink Cupid.** Clear soft pink standard, white wings.

**Mixed Cupid.** Contains many colors.

### Bush Sweet Peas

(Mixed.)

A distinct type of bush habit (not dwarf like Cupid) with blossoms much the same as tall varieties but shorter stems. Oz., 15c; 2 oz., 25c. Pkt. 5c.

### Everlasting Peas

A perennial climber, producing a succession of white, rose and purple blossoms in clusters. Suitable for trellises, arbors, etc. Hardy perennial. Height, 10 feet. Mixed. Oz., 35c. Pkt. 5c.

### THUNBERGIA. Alatum—Climbing Black-Eyed Susan.

A trailing or climbing plant with flowers of various shades of yellow and white, having a dark center or eye. Finely adapted for vases or hanging baskets, for piazza decorations. Height, 4 feet. Mixed. Pkt. 10c.

**TROPAEOLUM CANARIENSIS.** See Canary Bird flower.

### VENUS' LOOKING GLASS—Campanula Speculum.

A small genus of hardy annuals with purplish-lilac flowers varying to rose-colored and white. They grow rapidly and are in bloom the whole summer. Pkt. 5c.

### Double Sweet Peas

It has been a difficult task by hybridization and selection to change the habit of the Sweet Pea to the double form, and much remains to be done. The result at best is really semi-double flowers. The best varieties we have will not produce more than half doubles, the others remaining of the usual single type. We furnish them mixed. Oz., 15c; 2 oz., 25c. Pkt. 5c.



Thunbergia.







Verbena Mammoth.

**VERBENA.**

The most popular bedding plant grown from seed. The fine variety of colors, with stripes and markings of different colors, profuse and long continued bloom and excellence for bouquets, make them one of the most desirable annuals for general culture. Grown from seeds the flowers are quite fragrant, and blossoms stronger than from cuttings. Tender perennial.

**Verbena Hybrida.** Mixed colors.  $\frac{1}{4}$  oz., 25c; oz., 75c. Pkt., 5c.

**Mammoth.** Mixed.  $\frac{1}{4}$  oz., 50c. Pkt., 10c.

**Separate Colors.** White, pink, purple, blue, scarlet, striped. Each pkt., 10c.

We furnish Verbena plants in the spring months. See list of plants.



Sweet Violet.

**VIOLET—Viola Odorata.**

The violet should not be wanting in any garden, on account of its fragrance and early appearance. A single flower will perfume a whole room. Succeeds best in a shady, sheltered place, and can be easily increased by dividing the roots. The violet is an emblem of faithfulness. Hardy perennial. Height, 4 inches. Pkt., 10c.

**WHITLAVIA, Grandiflora.**

An elegant annual, with delicate foliage and drooping clusters of rich, dark blue and white bell shaped flowers. Is fine for baskets and vases; for piazza decorations is one of the best, flourishing best in partly shaded situation. Height, 1 foot. Pkt., 5c.

**WALLFLOWER.**

The large, massive spikes of the Wallflower are very conspicuous in beds and borders, and are very useful in making bouquets. They are deliciously fragrant, perfectly double, and combine many shades of color—the orange, purple and chocolate predominating. Height, 18 inches. Tender perennial.

**Double, Mixed.**

Pkt., 10c.

**Single, Mixed.**

Pkt., 10c.

**WILD FLOWER GARDEN, or Mixture of all Kinds of Flower Seeds.**

Any one who has planted and cultivated flowers in neatly laid out beds and borders is aware of the labor and constant attention required to produce the desired effect. To those who cannot give this care, "The Wild Flower Garden" presents a substitute which, for its unusual and varied effect, cheapness and the small amount of labor necessary for its construction has no equal. The seeds we offer for the "Wild Flower Garden" are a mixture of over 150 different varieties, and being mixed can be offered at a much less price than when sold in separate packages. No one not having such a bed can form an idea of its beauty, the different seasons of bloom insuring something new almost every day.  $\frac{1}{2}$  oz., 15c; 1 oz., 25c. Large pkt., 10c.



Zinnia Double.

**WILD CUCUMBER—Eschinochystis Lobata.**

Ornamental climbing cucumbers with curious fruit, remarkable for its luxuriance and rapidity of growth. Height, 15 feet. Half-hardy annual. Oz., 15c;  $\frac{1}{4}$  lb., 40c. Pkt., 5c.

**WISTARIA VINES—Glycine Sinensis.**

One of the quickest growing climbers, of fine bright foliage, producing bunches of rose lilac flowers in great abundance during spring. If once started will live for years. Hardy perennial. Height, 20 feet. Pkt., 10c.

**XERANTHEMUM.**

A popular flower of the immortelle class. Blooming freely in common soil. Plant is of compact habit, with flowers borne on strong stems. Colors, white, purple, red, and light blue. Hardy annual. Height, 1 foot. Pkt., 5c.

**ZINNIA.**

Fine, large flowers, of great variety of colors—red, rose, crimson, scarlet, purple, orange, white and yellow—the flowers full double as a Dahlia, and remaining in bloom from July till frost. Make a fine display when grown in rows, the plants forming a dense hedge, covered with blooms. Height, 2 feet. Half-hardy annual.

**Double, Mixed.**

Pkt., 5c.

**New Zebra.** Striped, resembling a zebra.

Pkt., 10c.



**REMEMBER:** We give premium Packets with orders for seeds in packets and ounces. GET YOUR NEIGHBORS to combine their orders with yours, save on transportation, also help your friends in getting reliable seeds.

Our trademark, "Columbine," put on any package, from our stores, means that its contents is the best that money can buy.





# SUMMER FLOWERING BULBS

In planting beds always begin by outside row and leave a space between plants and edge of bed of half the distance plants are to be set apart in the bed. If plants are to be set 6 inches apart leave a space 3 inches wide. Square beds will require same number of bulbs or plants as circular beds if its diameter is same length as one side of the square. To find out number of plants needed for an oval bed measure the length and breadth; divide the total by 2, and this will give you the diameter of a circular bed. ( $6+10=16\div 2=8$  ft.) Find out in the following table the number of plants required for a bed of 8 ft. diameter at 6 or 12 inches apart, and that will give you number of plants required for your oval bed 6 by 10 ft.

## NUMBER OF PLANTS FOR CIRCULAR BEDS.

3 ft. diameter, 6 inches apart.....	28 plants	10 ft. diameter, 6 inches apart.....	320 plants
3 ft. diameter, 12 inches apart.....	7 plants	10 ft. diameter, 12 inches apart.....	80 plants
5 ft. diameter, 6 inches apart.....	80 plants	10 ft. diameter, 18 inches apart.....	36 plants
5 ft. diameter, 12 inches apart.....	20 plants	10 ft. diameter, 24 inches apart.....	20 plants
6 ft. diameter, 6 inches apart.....	112 plants	14 ft. diameter, 6 inches apart.....	612 plants
6 ft. diameter, 12 inches apart.....	28 plants	14 ft. diameter, 12 inches apart.....	153 plants
8 ft. diameter, 6 inches apart.....	200 plants	14 ft. diameter, 18 inches apart.....	68 plants
8 ft. diameter, 12 inches apart.....	50 plants	14 ft. diameter, 24 inches apart.....	39 plants

## HINTS AND SUGGESTIONS FOR GROWING SUMMER FLOWERING BULBS IN POTS.

The best soil for growing plants in pots is made by mixing one part ordinary garden soil, one part of turfy matter, or leafmold, with enough sand to make it so friable that it will fall apart readily after squeezing it in the hand. The turfy matter is obtained by cutting off that portion of soil in which the roots are when a piece of sod is turned over. It gives a light, spongy soil, rich in vegetable matter.

Every pot more than three inches across should have a layer of coarse gravel, or pieces of broken earthenware, to allow drainage, before filling with soil. Do not repot often when plants are in five or six inch pots; but supply food in the shape of commercial fertilizers.

In repotting any plant, large or small, disturb the roots as little as possible. Slip it out of its old pot, put it into new one and fill in about it with fresh soil. Water well to settle the soil you have added.

If bulbs are started in pots and then plunged into the ground they can be lifted up before frost and carried in the house where they will continue to bloom for some time.

Certain species of bulbous plants will bloom all winter.

## AMARYLLIS.

Beautiful flowering bulbs of easy culture and very ornamental. Good for indoor or outdoor culture. Bulbs should be taken up in the fall if planted outdoors.

**Johnsonii.** An old favorite, producing immense trumpet shaped crimson flowers, each petal of which bears a broad white stripe. Extra large bulbs, 40c each; three for \$1.00.

**Formosissima.** Jacobean Lily. Crimson, blooming early in summer. Each, 15c; 3 for 40c.

**Belladonna Major.** Mixed. The best for forcing. Large bulbs. 25c each; 3 for 65c.



Amaryllis.

## BEGONIAS, TUBEROUS ROOTED.

Are very easily grown and are almost sure to bloom. Their showy flowers have become very popular, especially for window or conservatory, thriving in positions where partly protected from direct rays of the sun. Bulbs can be kept dormant from year to year. Our stock of bulbs selected from free bloomers. For seed of Tuberous Begonias, see page 40.

**Double.** White, scarlet, pink or yellow, 15c each; per doz., \$1.00.

**Single.** White, scarlet, pink or yellow, 10c each; per doz., 75c.



Caladium.

## CALADIUMS.

Perhaps better known as Elephant's Ear. A very effective plant for outdoor planting where a tropical appearance is desired. The leaves often attain a length of 3 feet and 1½ feet wide. With a little care they grow to enormous proportions. Good bulbs, 15c; three for 40c.

## CALLA LILIES.

This old favorite is always "in style," and a flower that should be in every plant collection. Our bulbs are the true California grown, extra large and vigorous. Order early. We cannot promise to have bulbs in good condition after April 1. Each, 15c; four for 50c.



Calla Lily.



Cyclamen.

## CYCLAMEN.

A well known and universally admired plant, producing exceedingly handsome flowers. It grows readily, blossoms freely and remains a long time in flower. The soil should be equal parts of turfy loam, leaf mould and sand. Plant in a 5-inch pot well drained. Keep in a cool, light place, watering lightly till growth begins, then water freely and give plenty of light and air.

The stock of bulbs we offer is grown expressly for critical flower lovers.

**Cyclamen Persicum Giganteum.** Separate colors, white, red and purple. Each, 15c.

Cyclamen are very easily cultivated from seed. Often getting very rare and curiously marked varieties. See page 41.

## SPOTTED CALLAS.

Similar in growth to the well known White Calla, except that the foliage is dotted with white spots and the flower is smaller, with a dark throat. Each, 15c; four for 50c.

# Cannas

A round bed 7 feet in diameter, requires 19 plants and one of 10 feet requires 36 plants.

The Cannas are among the most beautiful bedding plants. They have long been great favorites, but since the introduction of many new varieties their value has been greatly increased by adding to the already attractive foliage large flowers of the most brilliant colors, so that they are now indispensable. No plant is better adapted to our climate, and nothing costing so little excels them for masses of beautiful foliage, as well as the abundance of dazzling blooms in many shades. Plant outdoors about the middle of May if weather is warm and settled, setting the plants 18 inches apart each way, and the tallest varieties in center of bed. Do not water too freely until well started, then they should have an abundance.





Cannas.

## CANNAS—Continued.

Prices, 15c each, 2 for 25c; the full collection \$1.60

Height, 4 feet.

- Alsace. Flowers creamy white, green foliage.  
 Chas. Henderson. Crimson, good bedder, green foliage.  
 Chicago. Light cherry scarlet, green foliage.  
 Coronet. Large yellow flowers, green foliage.  
 Duke Marlborough. Rich maroon, green foliage.  
 Egandale. Currant red, bronze foliage.  
 David Harum. Large vermilion flowers dotted with crimson spots, bronze foliage.  
 Shenandeah. Large salmon colored flowers, bronze foliage.

Height, 5 feet.

- Allemania. Orchid flowered, scarlet with yellow border, green foliage.  
 Burbank. Orchid flowered, yellow with crimson spots, green foliage.  
 Austria. Orchid flowered, yellow with pale red spots, green foliage.  
 Florence Vaughan. Yellow dotted with red, green foliage.  
 Melle. Berat. Bright rosy carmine, green foliage.

Height, 6 feet.

- Alphonse Bouvier. Crimson, strong grower, green foliage.  
 Explorator Campbell. Deep rich crimson, green foliage.  
 Unnamed Varieties. Mixed. 10c each; 3 for 25c; 12 for 80c.

## DAHLIAS

We make a specialty of stock from the famous Wilmore Dahlia Farm, where there are hundreds of varieties grown. Each season we go through the assortment growing and select with special care varieties we believe to be worthy. Our list contains the very cream of the better varieties. Parties having Mr. Wilmore's price list can select any varieties therefrom and order with other goods from us.

One to three strong eyes to each bulb. Do not judge the flowers by the size of the bulb, as some of the grandest have the smallest bulbs. We send printed cultural directions when requested.

On orders for Dahlias amounting to \$2.50 and over, we will give as premium "Dahlia Manual," by W. W. Wilmore, which sells at 35 cents.

## DAHLIAS—DECORATIVE, SHOW AND FANCY VARIETIES

Prices, 15c each; \$1.50 per dozen, except where priced differently. 6 at the dozen rate.

## WHITE SHADES.

A. L. Chase. Creamy white streaked with purple, sometimes solid purple. Height, 3 feet.

Bon Maza. An old Dahlia, but one of the best. White ground, streaked and marbled in a curious manner with bright red. Height, 4 feet.

Glorie de Lyon. Pure white. The largest white Dahlia in cultivation; almost round as a ball. Height, 3 feet.

Grand Duke Alexis. An immense white flower, shaded with delicate lavender, on long wiry stem. Height, 4 feet. Price, Each, 20c.

Lady Mildmay. A very beautiful flower. White ground shaded to pale lilac, very large and full; a free bloomer. Height, 3 feet.

Mrs. Linder. This new decorative Dahlia we consider one of our best. Its color is a beautiful creamy white, shading to blush pink. Of perfect outline. Height, 4 feet.

Mrs. T. Winters. The grandest of all white Dahlias. Its color is a pure waxy white, which shows no tint or variation even in the strongest sunlight. It blooms very freely, producing flowers from 5 to 7 inches in diameter, with beautifully pointed petals. Another good quality is that it never shows an open center. The plant grows to a height of 4 feet, and is of a rather spreading habit. Price, Each, 20c.

Snow. A beautiful pure white, long stem. Excellent for cutting. Height, 4 feet.

## PUPL, RED AND MAROON.

Bon Ton. A fine ball shaped flower of a deep garnet red, sometimes tipped and streaked with white. An extra fine Dahlia. Height, 4 feet.

Frank Smith. Rich dark maroon. Generally tipped with pure white, shaded into pink. One of the best. Height, 5 feet.

Floral Park Jewel. Rich purple red, tipped and striped with white. Sometimes solid color. Very early and free bloomer. Height, 3 feet.

Grand Mogul. Bright scarlet tipped and streaked pure white. Height, 4 feet.

Lyndhurst. Scarlet or vermillion. A noble flower. Height, 4 feet.

Navajo. See cut. The color is very rich, being a most intense red, with violet shading. Strong and healthy, foliage very dark. Price, Each, 20c.

Pioneer. The nearest approach to a black Dahlia of any yet introduced. Height, 3 feet.

Purple Gem. Rich royal purple, clear and constant. A first-class flower. Height, 4 feet.



## PINK.

A. D. Livoni. Rich pink, finely formed, a very handsome flower. Height, 3 feet.

Annie Moore. A fine variegated flower of medium size. Color, beautiful combination of cherry, pink and white. Height, 3 feet.

Dr. Gates. This is a lovely shade of shell pink shading to blush at the end of the petals. It has a fine stem, holding its flowers well above the foliage. Height, 5 feet.

Dr. Muir. Flowers are large and full. Color, apricot, shaded to orange bronze. Height, 3 feet.

Madam Von Den Dael. See cut. An immense shell pink decorative Dahlia. Stems are exceptionally long and wiry, bringing the large flowers above the foliage. Price, Each, 20c.

## YELLOW SHADES.

Golden Treasure. A beautiful burnt orange color. Flower large, well formed and full to the center. Height, 3 feet.

Kaiser Wilhelm. One of the grandest flowers in cultivation. Of immense size and perfect form. Deep yellow, tipped and shaded with cherry red. Height, 4 feet.

Miss Dodd. Purest yellow. Of exquisite form and color. A remarkably handsome flower. Height, 3 feet.

Miss Ruth. Lemon yellow, tipped with pure white; sometimes clear yellow. Height, 3 feet.

Mrs. Hartong. Very large and exquisite form. Color, light fawn, suffused with pink; handsome. Height, 5 feet.

Mrs. T. F. DeWitt. See cut. The large, yellow flowers are perfect both in form and color. Price, Each, 20c.

The Baron. Bright yellow flowers, sometimes tipped with white. In form they are nearly round. Stems long. An excellent variety for cutting. Height, 4 feet. Price, Each, 20c.

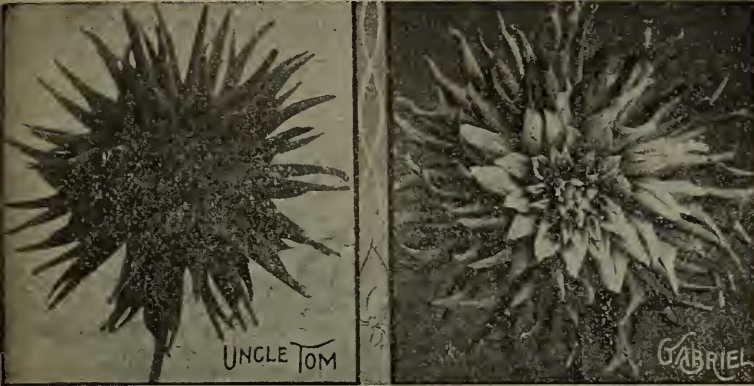
SPECIAL OFFER: One each, above Show and Fancy Varieties—28 bulbs for \$3.50 prepaid.



## CACTUS DAHLIAS

The following list is a very "Select Fourteen," being all from the best introductions of the past few years. They are bound to please the most critical. SPECIAL OFFER, One each, 14 bulbs for \$1.65, prepaid.

Price, 15c each or \$1.50 a dozen, except where priced differently; 6 at the dozen rate.



### PINK.

**Countess of Lonsdale.** Color, an exquisite shade of rich salmon, with just a suspicion of apricot at the base of the petals. Towards the tips the color deepens gradually to the softest carmine pink. Each, 20c.

**Estella.** Color, variable ground varying from blush to dark pink, heavily streaked and marked with red, sometimes producing a half of the flower solid red.

**Mrs. Alveid.** Salmon shaded to primrose, pink petals, long, and flower finely formed. Height, 3 feet.

**Kriemhilde.** Produces flowers of a delicate flesh pink, shading to white in the center. As a cut flower it is likely to supersede all existing pink sorts. Each, 20c.

**Zephyr.** A light, feathery form of unique coloring, rosy pink shading to heliotrope. An early and profuse bloomer. Height, 3 feet.

### YELLOW.

**Mrs. Chas. Turner.** Is the finest of all the yellow in the Cactus variety. Extra large, with long, pointed petals and perfect in form. Bright lemon yellow. Height, 4 feet.

**Genesta.** Rich orange bronze. A fine autumn shade. Height, 3 feet.

## SINGLE DAHLIA

**Twentieth Century.** A grand single variety, not only valuable as a flowering plant for the garden, but a choice cut flower. It is a rosy crimson, tipped with white, and has a white band around the disc. As the season advances they become lighter, until they are almost pure white, suffused with soft pink, not variegated but blended in the most beautiful manner. Price, Each, 20c.

## POMPON OR BOUQUET DAHLIAS

These small, well formed Dahlias are especially desirable for cutting. We name but three colors, but can furnish a full list of colors if desired. Strong tubers, 15c each; \$1.50 per doz.

**Catherine.** Bright yellow, good form and stem. Height, 3 feet.

**Darkness.** Very dark maroon, extra fine. Height, 3 feet.

**White Aster—Guiding Star.** Pure white; excellent for cutting; petals fringed. Height, 3 feet.

alike, our choice, but not labelled, for \$1.00. An immense

### WHITE.

**Iceberg.** A delicate, medium sized flower, borne on long erect stems. Color pure white shading to greenish white at the base of the petals. Height, 3 feet. Each, 20c.

**Mrs. Peart.** Color a delicate creamy white; height, 3 feet.

### RED AND MAROON.

**Gabriel.** See cut. Very large and full to the center. Color, scarlet to creamy white, often striped scarlet and white. Strong tubers. Each, 20c.

**Gloriosa.** Bright scarlet, long curved petals. One of the best. Height, 4 feet.

**Mars.** Intense scarlet shading to orange at the base of the petals. Height, 3 feet.

**Mrs. M. Leslie.** It is a fine Cactus. The plant is of spreading habit and the flower very compact, of a deep glowing red.

**Uncle Tom.** See cut. Maroon approaching black; petals, long and narrow, flowers large and full; strong tubers. Each, 20c.

**DOLLAR COLLECTION.** Thirteen Dahlia Bulbs, no two amount of flowers for the money.

## GLADIOLUS

The most attractive of all summer flowering bulbs, and now that such great advancement over the common sorts has been made, the Gladiolus is winning admirers each season. They are sure to bloom. We recommend planting 4 inches deep, in ordinary soil not excessively rich. Make succession of plantings to have blooms prolonged through the season. Large bulbs do not always produce the grandest flowers. Medium sized bulbs give best results.

	Each.	Doz.
<b>Augusta.</b> Lovely pure white with blue anthers; strong, straight spike, often having two or three branches.....	\$0.05	\$0.50
<b>Baron Hulot.</b> Large size flowers, well arranged on straight spike; color dark violet, bordering on blue.....	.15	1.50
<b>Baron Staffe.</b> Clear lilac, stained pale violet and yellow.....	.10	1.10
<b>Brenchleyensis.</b> Vermillion scarlet.....	.05	.50
<b>Eugene Scribe.</b> Well open flowers, tender rose, blazed carmine-red.....	.10	1.10
<b>Gil Blas.</b> Early flowering plant of dwarf habit, flowers salmon-rose, with a red spot on primrose ground.....	.10	1.10
<b>George Paul.</b> Large flowers, deep crimson slightly stained yellow, spotted with purple.....	.10	1.10
<b>Giant Pink.</b> Large flowers of rich and clear pink, three lower petals marked with red.....	.10	1.10
<b>Jane Dienlaffoy.</b> Flowers creamy white, lower petals stained maroon.....	.15	1.50
<b>Klondyke.</b> Very desirable as one of the earliest yellow. Pale primrose-yellow with crimson maroon blotch on lower petals.....	.05	.50
<b>Marie Lemoine.</b> Slender spike, well expanded flowers; upper division cream, flushed salmon-lilac; lower division spotted violet and yellow.....	.05	.50
<b>May.</b> Lovely pure white flowers, finely flaked bright rosy crimson; good for forcing.....	.05	.50
<b>Mephistopheles.</b> Flowers of large size, dark red, stained with black and yellow. Very attractive.....	.10	1.10
<b>Mrs. Beecher.</b> Beautiful deep rosy crimson, large well open flowers, with white throat, freely marked.....	.10	1.10
<b>Princeps.</b> This magnificent variety, grown and developed by Dr. Van Fleet, is the largest and most effective and graceful of all Gladioli. It grows from 3½ to 4 feet high under ordinary garden conditions; its handsome foliage is a grand setting for the brilliant Amaryllis-like blooms which open more widely than any other variety. The color is rich crimson with intense shadings in the throat and broad white blotches across the lower petals. The flowers range from 5 to 6 inches in diameter.....	.20	2.00
<b>Rosella.</b> Large, well opened flowers, light rose, stained purple and white.....	.10	1.10
<b>Scarsdale.</b> Tall grower, with large pink-lavender colored flowers, shaded to dark rose.....	.10	1.10
<b>Snowbank.</b> Fine spike of well formed flowers, pure white, save for a slight stain of red at base of petals.....	.10	1.10



We will sell one dozen mixed varieties at dozen rate, if prices per dozen are same.



## GLADIOLUS—Continued.

**Groff's Strain, Mixed.** Our stock of these is from the Gold Medal collection of the Pan-American Exposition. In the entire field last summer we could not find a faulty flower. Many would measure 5 inches across, from tip to tip of petals. They are surely grand. You should order from this stock if you wish to excel in cultivating Gladioli. All large size bulbs, 10c each; 75c per doz. Second size bulbs, 60c per doz.; 100, not prepaid, for \$3.50.

**High grade Mixture.** Made up of many of the finest of the older strains, including some of Lemoine's Seedlings. Child's and Burbank's Select. Average good sized bulbs, 4 for 20c; doz. for 50c; 100, not prepaid, for \$2.50.

**Good Mixture.** Consists of a good assortment of sure to bloom bulbs. Doz., 30c, prepaid; 100, not prepaid, for \$1.50.

**Light Colors Only, Mixed.** Each, 5c; 6 for 30c; 12 for 50c, postpaid.

## Choice Hardy Lilies

(All Prepaid.)

The Lily is decidedly "The Queen of Hardy Flowers." Much can be said in praise of the varieties we offer. There are many varieties not sufficiently hardy or suitable for our locality. We give special printed cultural directions with each order, if asked for.



Lily—Auratum.

**Longiflorum, Easter Lily.** Pure white trumpet flower, resembling the Harrisii. Each, 20c; dozen for \$1.75.

**Auratum.** The true golden-banded Lily of Japan—see cut. This Lily is perfectly hardy, increases from year to year. Should be in every garden. Each, 20c; dozen for \$2.00.

**Speciosum Rubrum.** A beautiful Japan variety, with six broad white petals, with rich crimson spots. Each, 15c; dozen, \$1.50.

**Speciosum Album.** The white petals have green bands through the center. Each, 20c; dozen, \$2.00.

**Speciosum Melpomene.** Flowers pinkish crimson, frosted white petals curved and widely bordered. Each, 15c; dozen, \$1.50.

**Tigrinum Flore Pleno.** The old fashioned Double Tiger Lily. Much admired for its stately habit, bearing immense clusters of blossoms of orange red, spotted with black. Each, 15c; 3 for 40c; dozen for \$1.25.

**Lily of the Valley.** A bed or clump of these in a shady corner will thrive and bring you a wealth of fragrant blooms. 6 pips for 20c; 12 for 30c; 100 for \$2.25.



Lily of the Valley.

## GLOXINIAS.

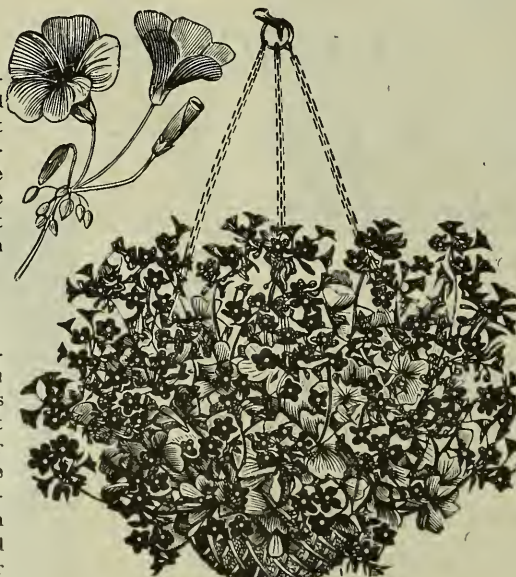
**New Giant Flowering Hybrids.** Beautiful house plants of dwarf habit and easy culture. Flowers are trumpet shaped with beautiful markings, shaded violet, rose, blue or crimson. One bulb planted in a 5-inch pot will make a magnificent show, and if planted at intervals will give a continuous bloom for a long period. Each, 10c.

## MONTBRETIAS.

One of the brightest and best of summer flowering bulbs, and one which will be more generally used when its merits become more fully known. Plant in clumps of 6 or 12 bulbs in May or June. They greatly resemble the Gladioli in growth and produce beautiful spikes of star shaped flowers in various shades of orange, yellow and red. Mixed varieties, 3 for 10c; per doz., 30c.



Gloxinia.



Oxalis.

## SUMMER FLOWERING OXALIS.

Useful for bordering beds, and also for hanging baskets. **Dieppi**, pure white. **Lasandra**, rosy-pink. Price, either color, dozen, 30c; 25 for 50c, postpaid.

## TIGRIDIAS (Tiger, or Shell Flower.)

These gorgeous summer flowering bulbs look well associated with Gladioli, Lilies and kindred stock; grow about 2½ feet high and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in the autumn and dried off in the same way. Mixed colors, 3 for 15c; dozen for 50c, prepaid.

## TUBEROSES

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed, and for a succession they can be planted at intervals as late as August. For open ground culture plant in May and June in warm location.

**The Pearl—Double Dwarf.** First size bulbs, each 5c; 12 for 50c; postpaid. Not prepaid, 12 for 40c. Second size bulbs, 30c per doz., postpaid; not prepaid, 25c.

## Bulb Collection Offer No. 30

Price, Postpaid, 30 Cents.

- 1 Liliun Auratum.
- 2 Montbretias.
- 1 Tigridia.
- 2 Gladioli.

## Bulb Collection Offer No. 50

One each of the following postpaid, for 50c.

- 1 Amaryllis Formosissima.
- 1 Spotted Calla.
- 1 Named Cannas.
- 1 Begonia, single.
- 1 Begonia, double.

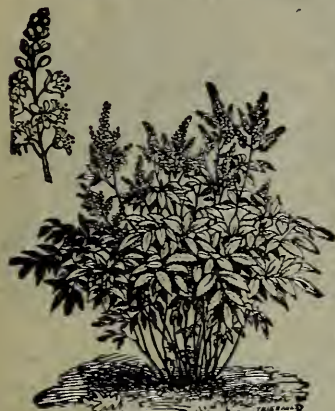
When wanting Hyacinths, Tulips, Narcissus, etc., ask for Fall Bulb Price List, sent free.



# Hardy Perennial Herbaceous Plants and Roots

No flower garden is complete without an assortment of the hardy plants that usually require very little care. They can often be tucked away in corners and odd places to come up each season with the opening of spring.

The prices named include postage except where noted. If we are privileged to ship by express at your expense we can usually supply much larger and stronger roots for the same price.



*Astilba Japonica.*



*Bleeding Heart.*

## BURNING BUSH—*Lychnis Chalcedonia.*

A very showy plant with bright scarlet flowers. Blooms in July. Each, 15c; 3 for 40c.

## CAMPANULA.

In several varieties, including the canterbury Bell. Each, 15c; 3 for 40c.

## COREOPSIS LANCEOLATA.

Flowers are bright golden yellow. Each, 15c; 3 for 40c.

## DIANTHUS BARBATUS—Sweet William.

Continues in bloom most all summer. Large, double flowers. Each, 15c; 3 for 40c.

## DELPHINIUM FORMOSUM.

*Perennial Larkspur.*

A very graceful, tall growing plant, with long spikes of bright blue flowers. Each, 15c; 3 for 40c.

## DIGITALIS—Fox Glove.

A very ornamental plant, growing to about 3 feet high. Each, 15c; 3 for 40c.



*Columbine.*

## FORGET-ME-NOT—*Myosotis Alpestris.*

Low growing plants, producing an abundance of fragrant small blue flowers. Each, 10c; 12 for 90c; not postpaid.

## GYPSOPHILA PANICULATA—Baby's Breath.

Small white flowers; very useful for bouquets. Each, 15c; 3 for 40c.

## HELIANTHUS MULTIFLORUS PLENUS—Dahlia Sunflowers.

Loaded with yellow flowers. Makes excellent cut flowers. Each, 15c; 3 for 40c.

## HELIANTHUS MAXIMILLIANAE.

Yellow, long graceful sprays. Fine for cut flowers; blooms in September; height, 6 feet. Each, 15c; 3 for 40c.



*Burning Bush.*



*Delphinium Formosum.*

## ACHILLEA.

*The Pearl.* Pure double white flowers, useful for cutting. Each, 15c; 3 for 40c.

## ANTHEMIS OR PARIS DAISY.

Large white flowers; free bloomer. 15c each; 3 for 40c.

## ASTILBA JAPONICA.

A species of Spirea, with dark green cut leaves and feathery white flowers. Each, 20c, not prepaid.

## AQUILEGIA COERULEA—The True Rocky Mountain Columbine.

The true beauty of this flower is appreciated when seen wild in the mountains of Colorado. We make a specialty of collecting roots and furnish none but the true stock. We ship to all parts of the United States. This flower is embodied in our trade mark on cover of this catalogue. Large roots, 20c; medium size roots, 15c.

## BLEEDING HEART OR DIELYTRA.

The old favorite, heart shaped flowers. Each, 20c; 3 for 50c.

## SHASTA DAISIES—Burbank's New Varieties.

There are now a few more varieties of this celebrated favorite, which are quite superior to the older form of Shasta Daisies. We mention a few of the best that produce flowers twice the size of the old form, with extra long stems.

*Alaska, Westralia, California.* Each, 20c; 6 for \$1.00.

## FUNKIA OR DAY LILY.

*White Day Lily—Funkia Alba.* Has milky white flowers, 3 to 4 inches long. In very cold localities requires some protection through the winter. Each, 15c.

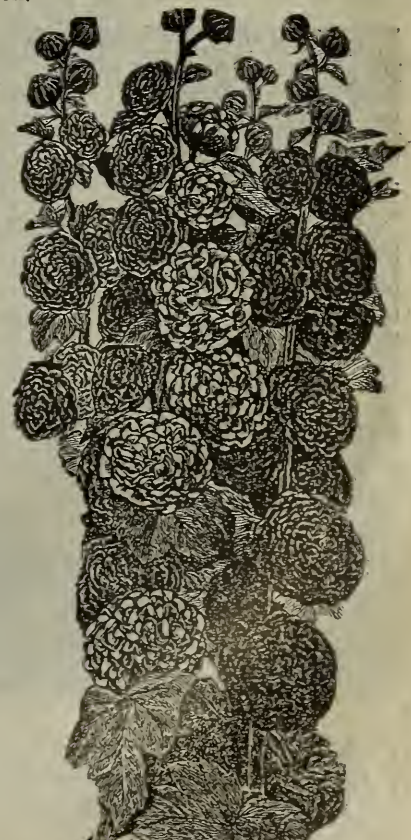
*Yellow Day Lily.* Produces large, fragrant yellow flowers, during July and August. Each, 15c.

## GAILLARDIA GRANDIFLORA.

Has a mass of blooms the entire season. Flowers are dark red-brown, with petals of orange or crimson. Price, 15c; 3 for 40c.

## FEVERFEW OR DOUBLE DAISY.

A showy plant with double flowers. 15c each.



*Hollyhocks*

## HOLLYHOCKS.

The handsome double flower of the improved varieties of this flower makes it a great favorite. Our stock is grown by a man who makes a specialty of bulbs and shrubs. We have in stock double white, salmon, pink, yellow, red and maroon. One year old roots. Each, 10c; doz., \$1.00.

## MAMMOTH ALLEGHENY HOLLYHOCKS.

This entirely new Hollyhock is quite distinct from the older varieties. Flowers beautifully fringed. Mixed colors. 10c each; doz., \$1.00.



## JAPANESE IRIS—Iris Kaempferi.

A splendid hardy plant of easy culture, which delights in constant cool, moist soil. It succeeds splendidly by the side of a stream, lake, pond, or in a swamp. It has the richest colors of the family and can be compared to orchids. It commences blooming about the middle of June and continues for 5 to 6 weeks. Many of the flowers measure 8 to 10 inches in diameter. Mixed varieties, each, 25c; dozen, \$2.50.

## IRIS GERMANICA—Flag, Fleur de Lis.

This is one of the most desirable summer flowering plants. They bloom in June and July and because of the great range of color are also known as "Rainbow Flower." Each, 15c; 3 for 40c; 12 for \$1.25.

## Named Varieties.

**Canary Bird.** Light canary yellow.  
**Celeste.** Bright blue.

**Conspicua.** Maroon and yellow.

**Florentina Alba.** White tipped pale lilac.

**Honorabilis.** Yellow and crimson.

**Flavescens.** Light primrose yellow; very large and free flowering.

**Mrs. H. Darwin.** Satiny white, veined crimson.

**Delicata.** Standard light blue; drooping petals white, edged lavender.

**Queen of May.** Soft rosy lilac, almost pink; free bloomer.

**Siberian Iris.** Blue. This is a flower of remarkable hardiness and vigor and one of the best for cut flowers.



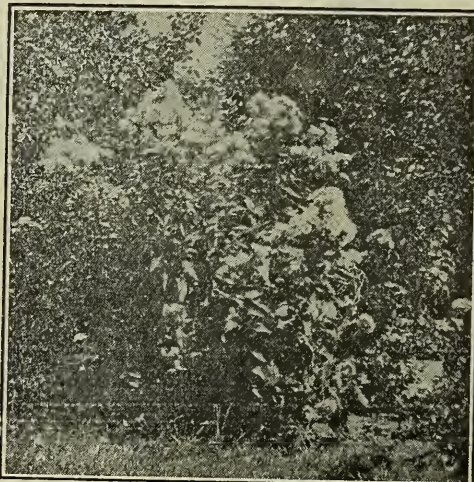
Japanese Iris.

## EARLY FLOWERING HARDY PHLOX.

These we consider the most desirable of all hardy perennials.

Flowering abundantly from July until late in the autumn. These new French varieties are of a dwarf growth, seldom attaining a height of over 12 to 18 inches. The immense flower heads often measure from 7 to 9 inches across, with flowers as large as a silver dollar, and comprise all shades of color, vermillion to white. They delight in sunny location and rich soil, but are by no means particular. We can supply these in ten different colors—white, pink, red, purple, lavender, deep lilac, pale pink with red eye, white with pink eye, salmon scarlet, salmon pink. 15c each; 3 for 40c; set of ten different colors, \$1.00, postpaid.

On orders for Hardy Phlox amounting to \$2.50 and over we will give as premium Manual on Cultivation of the Phlox. Price, 25c.



Hardy Phlox.

## PAEONIES

On order for Paeonies amounting to \$2.50 and over we will give as premium Manual on Propagation and Cultivation of the Paeony. Price, 25c.

This grand old favorite is today one of the most popular flowers. The Japanese have always held them in esteem and have brought to use an endless variety of colors and forms of blooms. The plant is perfectly hardy and increases rapidly. The flowers come early and are very seldom attacked by disease. An assortment should be in every garden. Our roots are extra large.



Paeony—Festiva Maxima.

**Golden Center.** Pure white with pale yellow center. A very attractive flower. Each, 30c; by mail, 40c.

**Early Rose.** An early pink, blooms in clusters; very fragrant. Each, 25c; by mail, 35c.

**Rosca Superba.** Fine, full rosy pink; extra choice flower; very free bloomer. Each, 25c; by mail, 35c.

**Victoria Tri-color.** Outer petals pale rose; mottled with pink; center ones yellowish white, with a few red marks; very large, full and sweet. Each, 25c; by mail, 35c.

**Late Rose.** Similar to Early Rose, only it blooms later in the season. It is a fine rose-scented flower. Each, 25c; by mail, 35c.

**Paeony Collection** of above 5 distinct colors for \$1.00; by mail, \$1.35.

**Festiva Maxima.** The grandest of all Paeonies. White with carmine flaked center and very double. 40c each; by mail, 50c.

**White,** unnamed, but strong roots, 20c each; by mail, 30c; 6 for \$1.00; by mail, \$1.30.

**Pink,** unnamed, but strong roots, 20c each; 6 for \$1.00; by mail, \$1.30.

**Red,** unnamed, but strong roots, 20c each; 6 for \$1.00; by mail, \$1.30.

## POPPY HARDY ORIENTAL.

Large and flaming flowers of orange-scarlet color. Each, 15c; 3 for 40c.

## PYRETHRUM ROSEUM.

Very attractive pink colored flowers. Each, 15c; 3 for 40c.



Our BARTELDES CULTURAL GUIDE is a booklet giving concise directions how to grow nice vegetables and flowers; also small fruits and flowering shrubs. It is sent free with orders for the asking.







Rudbeckia.

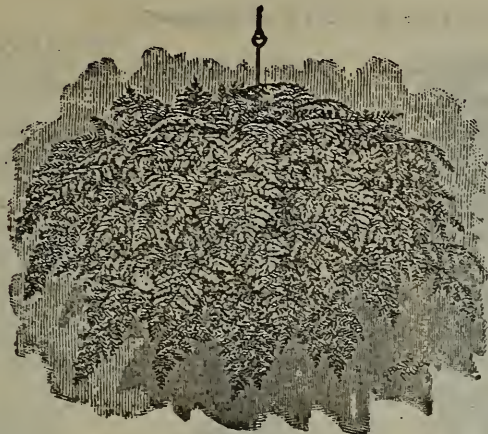
## RUDBECKIA OR GOLDEN GLOW.

This is decidedly one of the brightest and most showy among the hardy plants, and one of the easiest culture possible, commencing to bloom in July and continuing until killed by frost. The plant is compact, growing from 4 to 7 feet high, producing numerous stems which are laden with double golden-yellow flowers, in size and general shape resembling a Cactus Dahlia. Excellent for cut flowers, lasting well when cut. Each, 15c; 3 for 40c.

## JAPANESE FERN BALL.

Fern roots woven outside and around a ball of moss. These roots will produce beautiful sprays of fern from eyes at nearly every inch of their length, and, in a short time, the whole surface is covered.

**Directions for Starting.** Soak the ball in tepid water from 30 to 40 minutes and hang up. Repeat every other day till well started and after sprinkle when needed. The temperature of a common living room is just right. They can be dried up at any time, put away and started up again by soaking as before. Each, 60c; 3 for \$1.50, postpaid.



Japanese Fern.



Tritoma.

## TRITOMA—Torch Lily or Red-hot Poker.

**Pfitzeri.** The freest flowering variety in cultivation, with heads or blooms over 12 inches long of a rich orange-scarlet, shading to salmon-rose at edges, producing a grand effect, whether planted in the border or in masses or beds. Each, 25c.

## RESURRECTION PLANTS.

A truly marvelous plant. When you receive it from us it is a shrunken ball of coiled up leaflets, but when immersed in tepid water one fond-like tip unfolds slowly outward, then another and another until flattened into a plant-like shape, and transformed into a lovely rosette of beautiful velvet green, fern-like moss, both odd and marvelous. Can be resurrected at will, time and again, indefinitely, by being allowed to curl up and become dry each time, after having been fully opened by water. Large plants, 10c each; 3 for 25c; small plants, 5c each; 6 for 25c. All prepaid.

## Hardy Climbing Plants

FOR PORCHES, TRELLIS, ETC.

## AMPELOPSIS VEITCHII—Boston Ivy.

The handsomest vine possible for trailing to walls, buildings, etc. Is usually hardy; however, some protection is necessary. Two-year-old plants by express, 25c; small plants by mail, 25c; 3 for 50c, postpaid.

## APIOS TUBEROSA OR TUBEROUS WISTARIA.

Has foliage and blossoms similar to ordinary Wistaria, though propagated by tubers. Perfectly hardy. Each, 15c; 2 for 25c, postpaid.

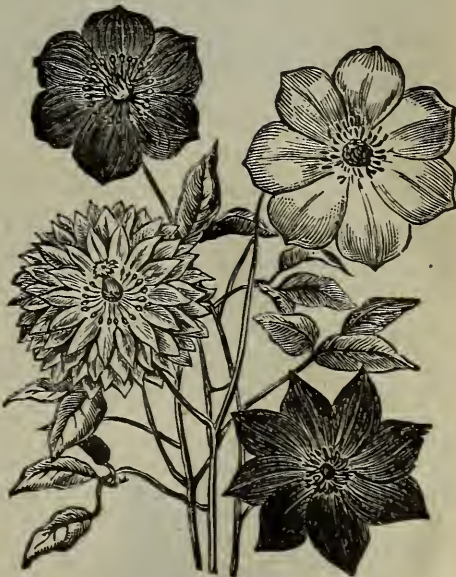
## BIGNONIA—TRUMPET VINE.

An old-fashioned hardy climber, bearing trumpet shaped crimson orange flowers. Large roots, 35c each, by express, not prepaid.

## CLEMATIS

## THE PROUD QUEEN OF ALL CLIMBERS.

With its large, beautiful flowers of many colors, produced in great profusion the entire season the Clematis is admired by every one the world over. It is a rapid grower, and delights in a heavy, rich soil and a sunny position. Dig the soil deep and plant so that the crown of the roots will be 3 inches below the surface of the soil, water freely, especially in dry times; give plants a good top dressing of well rotted manure late in the fall, and in the spring spade well and carefully into the soil and you will be well repaid. The varieties we have are those best adapted to our climate.



Group of 4 Clematis.



Apios Tuberosa.

**Jackmanii.** Has rich, large, deep purple flowers, so much admired by all. Healthy two-year-old roots. postpaid. Each, 50c.

**Mme. Eduard Andre.** A new bright red. Large flowering and as free bloomer as Jackmanii. With slight protection it will withstand the winters in Colorado. Postpaid. Each, 50c.

**SPECIAL CLEMATIS OFFER:** You pay the expressage. One each Jackmanii, purple, Henryi, white, Madame Eduard Andre, red, for \$1.15.

BARTELDES SEED CO.,

DEAR SIR: I received a copy of your autumn 1912 Bulbs and Plants catalog, and read same with great interest. The supply of bulbs furnished me by your firm last fall were indeed very satisfactory, true to name and colors. I had a succession of blooms from December up until spring, and they were immediately succeeded by the Crocus, Jonquils, Tulips and Lilies, which I planted outdoors. Denver should be congratulated upon having such a reliable firm, and I will make up and send you my order for house culture and outdoor planting. No investment that I have made has returned me as much pleasure.

Very truly yours,

E. T. KLEIM.



## HARDY CLIMBING PLANTS—Continued

## CINNAMON VINE.

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon and is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and delicious cinnamon odor, is a most desirable climber. We furnish the large tubers, postpaid, for 10c; 3 for 25c. Second size, 2 for 15c; dozen for 60c.



## JAPAN BEAN OR KUDZU VINE.

The most rapid growing perennial vine in cultivation, attaining, once after being established, a height of 50 feet or more in one season. Its foliage is large and furnishes dense shade; It bears small racemes of rosy-purple pea-shaped blossoms towards the end of August. A splendid plant for covering permanently verandas, dead trees, etc. Good roots, each, 40c, postpaid.

## WISTARIA.

A great climber, with dense clusters of beautiful flowers. **Purple**, large roots, 35c, by express, not prepaid. **White**, large roots, 50c, by express, not prepaid.



Wistaria.

## HONEYSUCKLE.

**Scarlet Trumpet or Coral.** Very strong, rapid grower with red flowers. Large two-year-old roots, 35c, by express, not prepaid.

## HONEYSUCKLE HALLEANA—Chinese.

Grows vigorously, with yellowish white fragrant flowers. Large two-year-old roots, 35c, by express, not prepaid.

## MADEIRA VINE.

While it grows most anywhere, it does best in a warm, sunny location. Has a small white flower. Foliage of waxy appearance. Madeira tubers are not hardy, though they are excellent climbers, thus we place them on this list. Strong tubers, 2 for 10c; doz., 40c, postpaid.



Honeysuckle—Chinese.

## BULB COLLECTION No. 25. Climbing Plants.

3 Apios Tuberosa,  
2 Cinnamon Vines,

3 Madeira Vines,  
all by mail for 25c.

## WOODBINE.

An exceedingly popular vine for porches, arbors, etc. Is very hardy, clings readily. Each, 20c; 3 for 50c; doz., \$1.50, postpaid.

## HARDY SHRUBS

Should be Sent by Express

This stock is all nursery grown and two years old, thus rather too large to be mailed. **If must be shipped by mail, add 20c to 30c each for packing and postage.** Each specimen will be properly labelled and packed for shipping. Plants reach customers in a better condition when shipped by express.

## ALMOND, DOUBLE FLOWERING.

The first shrub in the spring to bloom, even young plants being entirely covered with little pink rosettes, before any foliage is seen anywhere. Order these in March if you want them to bloom the first year. Blossoms in May. Price for strong plants, either pink or white, 35c each.

## AZALEA PONTICA.

Colors, white, pink, red. This hardy variety produces flowers before foliage and is very suitable for the lawn. Blooms in June. Price, \$1.00 each.



Bridal Wreath.

## BLUE SPRUCE.

Rocky Mountain grown. The best Evergreen for lawn. 20 to 24 inches high, \$1.50; 2 to 3 feet, \$2.00 each, by express only.

## BRIDAL WREATH—Spirea Van Houttii.

The most beautiful of all Spireas. In the spring it is a perfect fountain of white flowers; it is admired by all who see it. Strong two-year-old plants. Blooms in May and June. 35c each.

## CALYCANTHUS FLORIDUS—Strawberry Shrub.

A well known shrub with double chocolate colored flowers, with decided strawberry scent. Good sized plants. Blooms in June. 35c each.

## ENGLISH HAWTHORN—Crataegus.

We have the double flowering variety, which is superior to the old single form. Nice strong plants, 50c each.

## HIBISCUS—Rose of Sharon.

Has large, double flowers, pink or white with maroon center. Blooms in August. Each, 35c.

## HONEYSUCKLE TARTARIAN.

(Upright.) Forms a fine bush with creamy white flowers. Blooms in July, and red berries appear in August. Each, 35c.

## HYDRANGEA PANICULATA GRANDIFLORA.

A most beautiful shrub with immense panicles of blooms, white fading to a light pink. The most popular shrub we have. Blooms in August. Strong root, 35c each. Extra large, 50c each.

## GOLDEN LEAVED ELDER—Sambucus Aurea.

Very striking in appearance and a very robust grower. Blooms in July. Each, 35c.

## MOCK ORANGE—Philadelphus Coronarius.

Sometimes called Jessamine. Free flowering, pure white. Has a Jessamine fragrance. Blooms in June. Large two-year-old stock. 35c each.



Mock Orange.



Strawberry Shrub.



**HARDY SHRUBS--Continued****JAPAN QUINCE OR FIRE BUSH—Pyrus Japonicus.**

A very showy and popular shrub. Large, bright, scarlet flowers, and may be called a scarlet apple blossom. Blooms in May. Each, 35c.

**JAPAN SNOWBALL—Viburnum Plicatum.**

This Japanese variety is a close relation to our own Snowball; it is perfectly hardy and forms a nice shaped shrub from 6 to 8 feet high. It is covered with white flowers during the month of June; flowers resemble our old Snowball, but are rather flat than round. Strong plants, 40c each.

**NEW DOUBLE-FLOWED LILAC.**

Decidedly one of the most beautiful of all shrubs, especially adapted for the lawn. The flowers are perfectly double and very fragrant. Being a late bloomer, it is especially adapted to this country, thus not likely to suffer from late frosts, which so often catch the early single varieties. Blooms in June. Each, 50c.

**LILAC.**

Grows freely in any soil. We have the pure white and purple colored. Blooms in May. Each, 30c; 2 for 50c.

**LILAC PERSIAN.**

This splendid variety has smaller foliage and brighter colored flowers than the common variety. It does not grow so tall and blooms three or four weeks later. We have both purple and white. Each, 50c.

**SNOWBALL.**

A shrub that needs no introduction. Our stock is choice two-year-old roots. Blooms in June. Each, 35c.

**SPIREA CRIMSON—Anthony Waterer.**

This is a dwarf and very compact growing variety not over 2 feet, different from any other Spirea; covered all summer with bright crimson flowers, and perfectly hardy. Fine plants. Each, 35c.

**TAMARIX AFRICANA.**

Strong, slender growing, irregular shrubs, with feather foliage of a most striking pea green, and small, delicate flowers, borne on gracefully bending branches. These pink flowers are very attractive during July and August. Price, 35c.



Japan Snowball.

**HEDGE PLANTS****BARBERRY—Purple.**

These are the best plants for hedges, and are very hardy. The foliage and fruit are violet colored, rich looking and very effective. 15c each; per doz., \$1.50; per 100, \$11.00. By express only, not prepaid.

**COLORADO GROWN HARDY PRIVET.**

Similar to California Privet, but more vigorous and standing our severe winters. Good plants, not prepaid, each, 15c; doz., \$1.50; per 100, \$10.00.

**CALIFORNIA PRIVET.**

This plant is coming rapidly to the front, and if properly handled will make the finest hedge imaginable. They are not quite hardy in mountain districts. They should be planted 8 inches apart, and in a double row where possible. Good plants, by express only, not prepaid, 10c each; per dozen, \$1.00; per 100, \$7.50.

**SWEET BRIAR—English Wild Rose.**

Very rapid grower. The foliage is very fragrant, also the flowers. This makes a superb hedge, especially when in full bloom. It can be trimmed like other hedges. 35c each, by express, not prepaid. Dozen, \$3.00.

Persons contemplating planting large areas of hedge, or desiring estimates for quantity planting, will do well to consult us.



A Hedge of Privet.

**BARTEDES SELECT ROSES****BEST ADAPTED TO OUR WESTERN COUNTRY.**

**CULTURE.** The Rose, rightly called the Queen of Flowers, being a very heavy feeder, should be planted in soil made as rich as possible, and not too wet. Before planting incorporate in the soil, when digging the hole, a shovelful of well rotted manure and set your plant about one inch deeper than originally planted, spreading the roots and pressing the ground firmly around them. Plant the bedding kinds about 1½ feet apart, while the climbers are set from 3 to 4 feet apart. The best time to plant them is in April and May. During the summer the ground must be cultivated to keep it free from weeds and to prevent it from baking. In the fall, after the leaves have fallen off, the plants should be trimmed back to one-half of the season's growth, tied together and dirt heaped around them. A good dressing of old manure or bone meal will insure a big yield of flowers the next year. To prevent and destroy the rose chafer and rose slug, sprinkle the bushes as soon as leaves are forming and once a week after with a solution of one ounce Paris Green to 100 gallons of water. Mildew can be checked by dusting sulphur on the leaves every 2 or 3 days, and green fly will soon disappear if tobacco dust is scattered on and under the leaves. The plants should be sprinkled thoroughly before applying powdered insecticides.

**CARE TO GIVE ON RECEIVING PLANTS:** As our plants are big, strong, two-year-old, they should be trimmed back to one-third of the length of the main branches, removing all the side shoots (they do not bloom), and if they have been on the way 3 or 4 days, put in a bucket of water for a few hours, unless they are shipped in a growing state and dirt around the roots. We do not trim plants much, unless asked to do so, as most people expect large bushes and they look better untrimmed, but if you want your roses to grow, and we are very anxious that they should, you must trim them before or right after planting. Three or four eyes to a branch are sufficient.

We have had many flattering testimonials in regard to size and varieties of Roses we have sent out, and we have secured for this season the cream of our growers' stocks. These Roses are too large to mail satisfactorily. If they must be sent by mail, add 15c each for extra packing and postage.

**GREENHOUSE ROSES**

We can furnish the following Roses from 2½-inch pots direct from the greenhouse. They are good, strong, growing plants, and must not be compared with cheap Roses sold in collection lots. Price, 15c each; 2 for 25c; dozen, \$1.25. If by mail, add 5c each, or 40c a dozen, for postage.

**AMERICAN BEAUTY.** The most popular Rose grown; color, rosy carmine.

**BABY RAMBLER.** Large clusters of crimson flowers; very fine bloomer.

**BRIDESMAID.** A pink Tea Rose; very fine for cut flowers.

**FRAU KARL DRUSCHKI.** A pure paper white, large sized and free bloomer.

**GRUSS AN TEPLITZ.** Dark, rich crimson, changing to a bright velvety red.

**LA FRANCE.** The most perfect Rose; color, a delicate pink; very fragrant.

**LIBERTY.** A fine crimson scarlet; free bloomer.

**MADAM A. CHATENAY.** Flowers of good size, very double; color, rosy carmine, shaded salmon.

**PERLE DES JARDINS.** A rich shade of yellow; perfect form and Tea fragrance.

**RICHMOND.** A rich crimson scarlet, with long stems, which does not "blue" with age, blooming as freely as the best monthly rose.

**THE BRIDE.** A pure white Rose of large size and of delicious Tea fragrance.

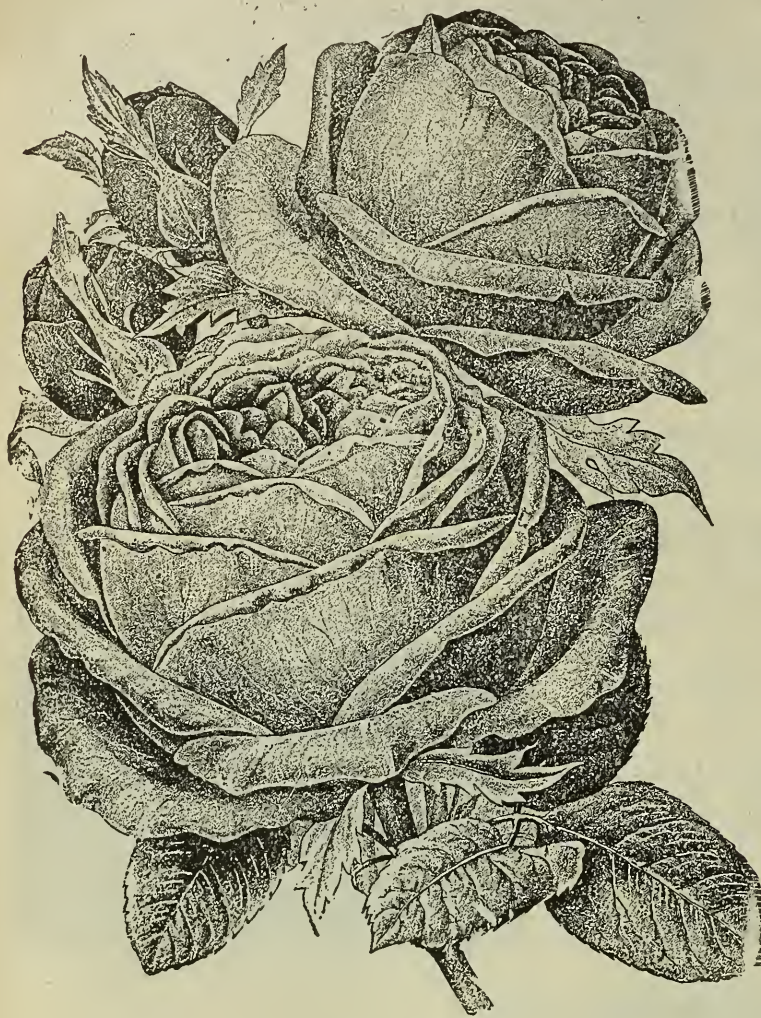
**WHITE BABY RAMBLER.** Large clusters of white flowers; free bloomer.



## Hardy Roses for Outdoor Planting

These are by far the most satisfactory Roses for our Western country. They are distinguished for their vigorous growth and large, perfect flowers. We recommend them for permanent beds. We furnish two-year-old field-grown plants, which are kept dormant in our storage cellar and should not be taken out until time for planting.

Price for all the two-year-old stock, 35c each; dozen, \$3.00, purchaser paying expressage. If they must be sent by mail, add 15c each for extra packing and postage.



### MOSS ROSES.

These are still favorable where an assortment of Roses are cultivated. Large plants, 35c each; \$3.00 per dozen.

**BLANCHE MOREAU.** Pure white flowers in clusters, large, full and sweet; finely mossed.

**CRESTED MOSS.** Rose color, beautifully crested.

### HARDY CLIMBING ROSES.

Desirable for covering trellises, walls or porches, as they succeed under all circumstances. Perfectly hardy, blooming in clusters of medium-sized double and semi-double flowers profusely throughout the season. Price for two-year-old field-grown plants by express, 35c each; \$3.00 per dozen, except **BLUE RAMBLER**. If they must be sent by mail, add 15c each for extra packing and postage.

**THE CRIMSON RAMBLER** remains at the head of the climbing roses. It is a vigorous grower, making shoots 10 to 15 feet in a single season, and when in bloom commands admiration by the gorgeous display of its brilliant crimson clusters of blossoms, each cluster a bouquet in itself. The blooms remain on the plant for a great length of time without losing their brightness. It is perfectly hardy in all parts of the West.

**YELLOW RAMBLER.** Also a strong grower and very hardy; produces large trusses of nearly double pale yellow flowers; very fragrant.

**WHITE RAMBLER.** Semi-double flowers lasting a long time on the plants.

**SPECIAL COLLECTION OF RAMBLERS.** One each, crimson, white, yellow, with a colored picture. Price, 90c.

**BLUE RAMBLER.** This novelty is sure to be a very great attraction. It is a strong growing hardy climbing rose, with a glossy green foliage and a few prickly thorns. The steel blue flowers appear in large clusters and are semi-double and medium in size. The showy yellow stamens with the blue flowers make the plant particularly attractive. Price, each 50c.

**LADY GAY.** A desirable new variety of vigorous growth. The flowers are of a delicate cerise pink passing to soft-tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds and the deep green foliage is charming.

**DOROTHY PERKINS.** This grand climbing rose resembles very much the Crimson Rambler, but flowers are more double, of a beautiful shell pink color and sweet scented.

**BALTIMORE BELLE.** Produces large, double pale blush flowers.

**PRAIRIE QUEEN.** A favorite. A bright red changing to deep pink.

### BARTELDES' SPECIAL ROSE COLLECTION.

Ten good and strong two-year-old plants, comprising all shades and colors, bush and climbing varieties, our own selection. By express, not prepaid, \$2.25.

### WHITE.

**COQUETTE DES BLANCHES.** Pure white, with beautiful shell-shaped petals. Especially suitable for cemetery planting.

**FRAU KARL DRUSCHKI.** A pure paper white, large sized and free flowering. The bloom is perfect in form and borne on a long stem.

**MADAM PLANTIER.** One of the best for cemetery planting with its large clusters of pure white flowers.

**MARGARET DICKSON.** A grand white, one of the most beautiful of the Hybrid Perpetuals.

**EVERGREEN GEM (Vichuriana) Memorial Rose.** Creamy white with the rich fragrance of Sweet Briar roses.

### PINK.

**CAPT. CHRISTY.** Flesh pink flowers, large and full. **CLIO.** Flowers are perfect in form; color, delicate satin blush, free blooming and strong, healthy grower.

**LA FRANCE.** The delightful fragrance of this Rose is appreciated by all lovers of Roses. This is the most perfect of Roses. A delicate pink. Half hardy, needs a little covering through the winter.

**MAGNA CHARTA.** Beautiful bright pink, suffused with carmine; strong grower.

**PAUL NEYRON.** Flowers deep pink. A very strong grower and a free bloomer.

**ENGLISH SWEET BRIAR.** The well-known English sweet-scented Rose suitable for fancy hedges.

**SWEETHEART (Vichuriana) Memorial Rose.** A beautiful shade of rosy pink, produced freely, and sweet-scented.

### LIGHT RED.

**AMERICAN BEAUTY.** The largest and sweetest of all hardy Roses. Immense in size, rich in color and fragrance; rosy carmine.

**ANNA DE DIESBACH.** Clear, bright carmine; very large and finely shaped; full and fragrant.

### RED.

**BABY RAMBLER.** This new Rose is a cross between "Crimson Rambler" and "Glory of Polyanthus," retaining the color and extreme hardiness of the former with the free flowering and dwarf habit of the latter. It is perfectly hardy and is covered with bright crimson flowers all through summer. A superb Rose for pot culture.

**GENERAL JACQUEMINOT.** Brilliant scarlet crimson; too well known to need description; no garden complete without it.

**GENERAL WASHINGTON.** Red shaded crimson, large, full and flat.

**JULES MARGOTTIN.** Bright cherry red, large, well-formed fragrant flowers.

**PRINCE CAMILLE DE ROHAN.** Very dark velvety crimson, changing to a deep maroon.

### YELLOW.

**GLOIRE LYONAISE.** White, tinted with yellow. The nearest approach of a yellow rose among Hybrid Perpetual Roses.

**JOANNE WESSENHOFF.** Flowers medium size; buds long and pointed and of perfect form. Color clear, lustrous yellow. Half hardy; needs a little covering through the winter.

**YELLOW PERSIAN.** Hardy semi-double yellow flowers, strong grower.





# Summer Bedding Plants

Ready from April 15 to June 15.

Priced by express. If wanted by mail, add 5c each, or 40c a dozen.

From 2-inch Pot		Each	Doz.	From 2-inch Pot		Each	Doz.
Antirrhinum (Snapdragon), assorted colors.....		\$ .10	\$ .90	Ivy, English .....		.10	.90
Asters, Chinese and Japanese, var. asst. colors...		.10	.90	Ivy, German .....		.10	.90
Asters (Daybreak), best for bouquets, pink.....		.10	.90	Lobelia, Crystal Palace, (blue).....		.10	.90
Carnations, Marguerite, fine summer bloomers....		.10	.90	Marguerite, white flower with yellow center....		.10	.90
Carnations, perpetual blooming, white, pink, red..		.10	.90	Marguerite, pure yellow.....		.10	.90
Cosmos, pink, white, red, yellow.....		.10	.90	Petunia, single, Giants of California, asst. colors..		.10	.90
Coleus, assorted varieties .....		.10	.90	Petunia, double fringed, assorted colors.....		.10	.90
Chrysanthemums, Chinese and Japanese, asst....		.10	.90	Phlox, Drummondii Grandiflora, assorted colors...		.10	.90
Feverfew, double white .....		.10	.90	Pinks, Chinese, double and single, assorted colors		.10	.90
Forget-Me-Not, blue .....		.10	.90	Pinks, hardy .....		.10	.90
Fuchsia, double, assorted colors.....		.10	.90	Salvia Splendens (Scarlet Sage).....		.10	.90
Fuchsia, single, assorted colors.....		.10	.90	Smilax .....		.10	.90
Geraniums, double, assorted colors.....		.10	.90	Stocks, Ten Weeks, assorted colors.....		.10	.90
Geraniums, single, assorted colors.....		.10	.90	Verbena, one of the best bedding plants, assorted			
Geraniums, Lady Washington, assorted colors...		.10	.90	colors .....		.10	.90
Hanging Basket Plants in assorted varieties....		.10	.90	Violet, sweet-scented, blue, single or double....		.10	.90
Heliotrope, white and blue.....		.10	.90				

## PANSY PLANTS.

For many years we have made a specialty of offering to our customers a very choice strain of Pansy Plants that are excelled by none for variety of colors and markings—they are grown from seed costing \$5 to \$8 per ounce—positively nothing better. These should always be sent by express. First lots in bloom ready about April 1. Price, not prepaid, 1 dozen in basket for 50c; 3 baskets for \$1.25; 100 plants not in baskets for \$3.00. Small plants nearly ready to bloom, per dozen, 35c; per 100, \$2.50.

We also furnish, BY EXPRESS ONLY, Decorative Plants for the Parlor, such as:

Palms (Kentia), from.....	\$1.50 to \$5.00 each	Boston Ferns, from.....	\$0.75 to \$1.00 each
Palms (Latania), from.....	\$1.50 to \$5.00 each	India Rubber Plants, from.....	\$1.50 to \$5.00 each

Larger plants of all sizes and descriptions can be furnished on application.

## DOUBLE DAISIES.

Grown exclusively for our trade. Assorted colors, plants in bloom. Can be furnished six in a basket for 40c; two baskets for 75c. All by express; not prepaid.  
Longfellow. Pink. Three for 25c.  
Snowball. White. Three for 25c.

## BURBANK'S SHASTA DAISIES.

Alaska. Large white flowers.  
California. Creamy color.  
Westralia. Flowers semi-double, creamy color.  
Each, 20c; 6 for \$1.00, prepaid.

## VEGETABLE PLANTS AND ROOTS

We have increased our facilities in this line and can fill all orders very promptly. These plants are grown from our selected seed and thus you can depend on genuineness of the plants. The men in charge of the work use great care to produce strong, vigorous plants, and pack them properly. These prices do not include postage. We do not favor having them sent by mail, as they are sure to damage when confined in a close mail pouch.

If by mail, add 6c per dozen, 30c per 100, for postage.

	Per 12	Per 100	Per 1,000
EARLY CABBAGE. From seed bed. Winnigstadt, Jersey Wakefield; ready May 1.....	\$0.10	\$0.50	\$4.00
EARLY CABBAGE. Transplanted. Same varieties.....	.15	.75	6.00
LATE CABBAGE. Hollander, Premium Flat Dutch, Winnigstadt and Red Drumhead; ready in June..	.10	.40	2.00
EARLY CAULIFLOWER. Snowball, ready May 1.....	.20	1.00	8.00
LATE CAULIFLOWER. Snowball, ready in June.....	.15	.75	6.00
TOMATOES. Earliana and Beauty, ready May 1, from seed bed.....	.10	.50	4.00
TOMATOES. Earliana and Beauty, ready May 1, transplanted.....	.15	.80	7.00
TOMATOES. Earliana and Beauty, ready May 15, in 3-inch pots.....	.50	4.00	30.00
PEPPERS. Ruby King and Cayenne, transplanted, ready May 15.....	.20	1.00	8.00
EGG PLANTS. New York Improved Purple, transplanted, ready June 1.....	.35	2.00	16.00
EGG PLANTS. New York Improved Purple, grown in 3-inch pots, ready June 1.....	.75	5.00	40.00
EARLY CELERY. Golden Self-Blanching. Ready May 10.....	.10	.50	4.00
LATE CELERY. Giant Pascal. Ready June 25.....	.10	.25	2.00
SWEET POTATOES. Yellow Nansemond and Yellow Jersey, ready May 15.....	...	.40	3.60

Can quote special prices on large lots Cabbage and celery in July.

ASPARAGUS ROOTS. Good one-year-old roots. Dozen, 15c; 100, 75c; 1,000, \$5.00. Good two-year-old. Dozen, 20c; 100, \$1.00; 1,000, \$7.00; if by mail, add 10c per dozen and 30c per 100.

Can supply Conover's Colossal, Palmetto and Columbia Mammoth White.

EARLY ARGENTEUIL. The earliest and largest green asparagus grown. Dozen, 20c; 100, \$1.00; 1,000, \$9.00. If by mail, dozen, 30c; 100, \$1.30.

ARTICHOKES. True White Jerusalem. Pound, 10c; 3 for 25c; 25 pounds at 3c; 100 pounds, \$2.50. Postage, extra, 10c per pound.

CHIVES. In bunch, sprouted. Each, 15c; dozen, \$1.25. By mail, 10c each extra.

HORSE-RADISH. Cut 4 to 6 inches long. Dozen, 15c; 100, 75c; 1,000, \$5.50. By mail, add 10c per dozen and 35c per 100.

MINT. The true old-fashioned Mint for seasoning. Per clump of roots, 25c; by mail, 35c.

RHUBARB. Large Victoria and Early Linnaeus; cut 1 or 2 eyes to each clump. Dozen, 50c; 100, \$3.00; 1,000, \$20.00. By mail, 50c per dozen extra.

RHUBARB, Australian Crimson Winter. Each, 15c; dozen, \$1.00, postpaid. 10c not prepaid, \$6.00.

SAGE. One-year clumps. Each, 20c; postage, 5c extra.

TARRAGON. Highly recommended for Tarragon vinegar. Each, 20c; by mail, 5c extra.

## SMALL FRUIT SEEDS

CURRENT, GOOSEBERRY, RASPBERRY, STRAWBERRY, BLACKBERRY. Pkt., 10c; oz., 70c.

New and rare varieties of small fruits are often obtained from planting seed; however, the seed does not produce the same variety as its parent.

WONDERBERRY. This plant is of very quick growth, ripening fruit in three months from time of seeding, and resembles a tomato plant but of more erect form, with larger leaves. The dark purple blueberry-like fruit is produced in great abundance. It is very good for making pies and jellies. It requires same culture as tomato. Pkt., 10c; ¼ oz., 35c; ½ oz., 60c.







Raspberry—Marlboro.

## SMALL FRUIT PLANTS

Prices are for plants by express, not prepaid. Plants will reach customers in a better condition if sent by express.

We have facilities whereby we can supply from reliable growers the following stock:

### BLACKBERRIES.

**Snyder.** Hardy, wonderfully productive; medium size; sweet and juicy.

**Erie.** Hardy and very vigorous; free from diseases; early, productive and large.

Price, each, 10c; \$1.00 per dozen; \$5.50 per 100, by express.

If by mail, add 25c per dozen for postage and packing.

### CURRENTS.

**La Versailles.** Very large red, with long bunches.

**Red Cherry.** An old favorite. Very vigorous and productive, though bunches are short.

Price, each, 15c; 5 for 65c; dozen, \$1.40, by express.

If by mail, add 35c per dozen for postage and extra packing.

### GOOSEBERRIES.

**Downing.** A large handsome pale green. Splendid for both cooking and table use.

**Houghton.** A small roundish berry, though sweet and tender. Enormously productive.

Price, each, 15c; dozen, \$1.50, by express. If by mail, add 35c per dozen for postage and extra packing.

### RASPBERRIES.

If by mail, add 20c per dozen for postage and extra packing.

**Cuthbert.** A remarkably strong, hardy and very large variety. Stands our winters well by covering. Berries are large, rich crimson.

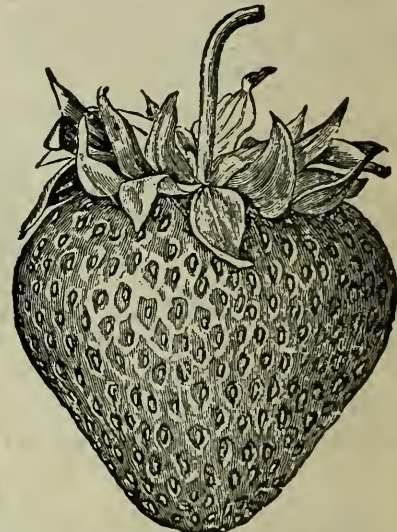
**Marlboro.** Large size, early, light crimson color; very fine and hardy. An excellent variety for shipping. Price for either, 12 for 50c; \$2.50 per 100; \$15.00 per 1,000, by express.

### STRAWBERRIES.

The following varieties have all perfect flowers and will succeed in any soil that is adapted to ordinary garden crops. They are best adapted to Colorado and the entire West. **Jueundas, Captain Jack, Wilson and Senator Dunlap.**

Prices for any above varieties, not prepaid. Dozen for 15c; 100 for 60c; 1,000 for \$5.00. If by mail, add 10c per dozen; 30c per 100 plants. When by express plants are more satisfactory. Ready in April and May, also September.

When large quantities of any above are wanted, write us in regard to same.



Strawberry—Senator Dunlap.

# DECIDUOUS TREE SEED

Prices by ounce and single pound include postage. No premiums on Tree Seed orders. Nurserymen buying in quantity should write for Nurserymen's Price List.

### AILANTHUS, TREE OF HEAVEN.

Introduced from Japan. It has been quite extensively planted in our Western states, and is noted for its extremely rapid growth. It grows to large size, and its foliage has a rich tropical appearance. Oz., 10c; ¼ lb., 20c; lb., 60c.

### WHITE ASH.

This is one of the most valuable varieties for forest planting. It is adapted to a wide range of soil and climate. Its growth is extremely rapid, often obtaining a growth of 6 feet in a single season. It is one of the earliest varieties to transplant or grow from seed, requiring no more care or skill than the ordinary crop of white beans or Indian corn, with the exception that the seed usually lies dormant the first season, but is sure to grow the next year, if the ground is not disturbed. Our seed is Colorado grown. Oz., 10c; lb., 60c. 5 lbs. or more, not prepaid, per lb., 45c.

### BASSWOOD, OR AMERICAN LINDEN.

A large tree of rapid growth; wood soft and white; lumber valuable. The foliage is luxuriant and the flowers produce honey in great abundance. Oz., 15c; lb., 1.00.

### BOX ELDER, OR ASH-LEAVED MAPLE.

A medium-sized tree of extremely rapid growth, not usually attaining a height of over 30 feet. The wood is close and fine-grained. Oz., 10c; lb., 60c.

Five lbs. or more, not prepaid, at 45c per lb. Our seed is Colorado grown.

### HARDY CATALPA.

Its exceedingly rapid growth, its extraordinary success on the Western prairies, the ease and certainty with which it is transplanted, the strong vitality and freedom from disease and insects, the incomparable value of its timber, the most imperishable nature of the wood when used for posts, railroad cross-ties and in other exposed situations, to say nothing of the handsome appearance of the tree and the unrivaled beauty of its flowers, all point to the Catalpa as the tree to plant.

Regular Stock, oz., 15c; ¼ lb., 40c; lb., \$1.25.

Selected Stock, oz., 20c; ¼ lb., 60c; lb., \$2.00.

### TEA'S JAPAN HYBRID CATALPA.

A new variety of wonderfully rapid growth, surpassing

Ask for our pamphlet—The Growing of Deciduous Evergreen and Fruit Trees from Seed—sent free.

any other hardy tree. Most valuable and durable timber; very large, handsome foliage and beautiful flowers; magnificently shaped tree. Endures extreme heat or drouth. Oz., 15c; ¼ lb., 40c; lb., \$1.00.

### COTTONWOOD.

A very quick growing tree; will grow anywhere; lumber not very valuable. Oz., 15c; ¼ lb., 40c; lb., \$1.00.

### WHITE ELM.

It is the largest of the native Elms, often growing to the height of 80 feet. The wood is tough and valuable. It is well worthy of cultivation, both for its wood and ornament. Oz., 10c; ¼ lb., 20c; lb., 60c.

### EUCALYPTUS GLOBULUS—BLUE GUM.

Remarkably quick growing, especially adapted to Southern states. It absorbs malaria and fever germs. Does best when started in seed beds, then transplanted to open ground. Height, 150 feet. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

### EUCALYPTUS TERETICORNIS—GRAY GUM.

A rapid grower and erect. Wood durable and useful for shingles, flooring, street paving blocks, etc., will last for ages. It is also a good honey producer. Height, 200 feet. Pkt., 10c; oz., 75c; ¼ lb., \$2.00; lb., \$7.00.

### YELLOW, OR BLACK LOCUST.

This variety is noted for its rapid growth of hard and durable timber. It is hardy and succeeds well in many parts of the country, while in some localities it proves a failure. It is worthy of a trial in any locality where it has not already been tested. Oz., 10c; lb., 60c.

### HONEY LOCUST.

This is a large and handsome tree; the trunk and branches generally beset with long and formidable spines, on which account it has been employed as a hedge plant. The wood is heavy and affords excellent fuel, but is not considered durable as a timber. Has done well in our state wherever planted. Seeds ought to be soaked before planting. Oz., 10c; lb., 60c.

Five lbs., not prepaid, \$2.00.



**PERSIMMON.**

Tree hardy. Wood very hard and fine-grained. It bears plum-shaped fruit, which is very astringent when green, but edible when fully ripe. Oz., 10c; ¼ lb.....30c

**RUSSIAN MULBERRY.**

Said to be the most valuable variety for our climate. The berries are edible. The trees make good fence posts after five years' growth, and also make splendid lumber for cabinet work. Pkt., 5c; oz., 25c; ¼ lb.....75c

**TREE CRANBERRY, OR SNOWBALL.**

Small tree or shrub; is 10 to 12 feet high at maturity, and produces its snowy flowers in large balls or masses in June. Pkt., 5c; oz.....25c

**LILAC.**

Well-known flowering shrub, highly ornamental. Seedlings usually furnish blossoms of varied colors. Pkt., 5c; oz., .....25c

**DECIDUOUS TREE SEED—Continued.****SUGAR MAPLE.**

It succeeds well in all soils and locations, making a stout, vigorous, rapid growth of hard wood, most valuable for fuel and highly prized for manufacturing purposes. Oz., 10c; ¼ lb., 30c; lb.....\$1.00

**SOFT, OR SILVER-LEAVED MAPLE.**

One of the most beautiful of Maples. The seed ripens in May, and cannot be kept over until fall and retain its vitality, hence it should be sown as early as possible after it is taken from the trees. Oz., 10c; lb.....35c  
Can give prices for quantity in May.

**OSAGE ORANGE.**

A native of Texas, has been generally introduced over the country for its extensive employment as a hedge plant. It is also known as Bois d'Arc. Proper time to sow is in April or May. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb.....60c

**PAW-PAW.**

Too small for any value for timber, but makes a fine ornamental tree and is also cultivated for its fruit, which resembles the banana in form and color, and when fully ripe is very delicious. Oz., 10c; ¼ lb.....30c

**FRUIT TREE SEEDS**

Prices per single pound are postpaid.

**APPLE.**

Apple seeds do not produce the same varieties, but an inferior though hardy stock. Upon the stock thus raised from the seed are grafted or budded the cuttings of such varieties as are desired. The seeds can be planted in good soil, any time during the winter in the South, or early in the spring in the North, in rows 18 inches apart. If the seed is planted in the spring it must first be frozen, which can be done during the winter by placing layers of seed in boxes and covering with sand and exposing them to the cold, freezing weather. After freezing, the seed must not be allowed to become dry, or many will be spoiled if deprived of all moisture.

**American Apple.** Oz., 10c; lb.....75c  
**French Crab Apple.** Oz., 10c; lb.....75c  
For large quantities, ask for prices.

**MAHALEB CHERRY.**

The remarks regarding apples are applicable to cherries. This variety is considered the best stock upon which to graft the choicest sorts. Oz., 10c; lb.....60c

**MAZZARD CHERRY.**

Another variety used extensively for grafting. Oz., 10c; lb.....60c

**PEAR.**

Sow the seed thickly in the spring in drills 18 inches apart. The soil should be deep—a rich, moist loam is most suitable. The value of the stock depends largely on a rapid and vigorous growth the first season. Oz., 25c; lb. ....\$2.00

**QUINCE.**

Quinces generally produce the same variety from seed, but occasionally vary. The stock is used mostly for budding and grafting the pear. The culture from seed is the same as for apples. Oz., 25c; lb.....\$2.00

**MYROBOLAN PLUM.**

The directions given for apples will apply to plums, except the pits should be planted further apart in the row. Oz., 10c; lb. ....60c

**GERMAN PRUNE.**

Treated same as preceding. Oz., 10c; lb.....60c

**PEACH.**

Peach stock are raised by planting the stone, 2 or 3 inches deep, in the fall. If the stones are cracked they are more sure to grow. The after treatment is about the same as for apples. Lb., 20c; 10 lbs., not prepaid, 75c.

**NUTS**

Prices per single pound are postpaid.

**BLACK WALNUT.**

One of the most valuable varieties for timber planting. A very large tree of rapid growth. It delights in rich soil and luxuriates in our prairie loams or timber land clay. Its lumber has a very high market value, and is becoming very scarce. The nuts are a well-known article of commerce. Lb., 20c; 10 lbs., not prepaid, 65c.

For pruning trees get a good pair of Pruning Shears or a Long Handle Tree Pruner. We keep both. See our list in back part of this catalogue.

**HICKORY.**

This species becomes a lofty tree, 80 feet high with a diameter sometimes of 2 feet. It furnishes most of the hickory nut of commerce. Lb., 20c; 10 lbs., not prepaid, 75c.

**BUTTERNUTS.**

A tree much admired for its timber, and also produces a desirable edible nut. Lb., 20c; 10 lbs., not prepaid, \$1.00.

# Rocky Mountain Evergreens

We make a specialty of collecting from the Rocky Mountain districts. Parties intending to purchase quantities will do well to write us for prices.

**ABIES CONCOLOR—Balsam White Fir.** A very handsome tree growing to a good size. Oz., 35c; ¼ lb., 90c; lb., \$3.00.

**ABIES DOUGLASHII—Douglas Red Spruce.** Rapid growing and ornamental, of pyramidal habit. Oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

**PICEA ENGLEMANNII—Englemann's Spruce.** Similar to Colorado Blue Spruce, but grows larger with needles less rigid and sharp. Oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

**PICEA, PUNGENS—Colorado Blue Spruce.** A most desirable conifer, with silvery foliage, for lawns. From selected blue trees only. Oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

**PINUS PONDEROSA—Yellow Pine.** Grows to an enormous size, with luxuriant foliage. Oz., 25c; ¼ lb., 75c; lb., \$2.50.

**PINUS FLEXILIS—White Pine.** A handsome tree of compact habit and dark green foliage. Wood white, soft and easily worked. Oz., 25c; ¼ lb., 75c; lb., \$2.50.

**PINUS BANKSIANA—Jack Pine. Gray Pine.** This species of pine is the best adapted to sandy soils. It grows more rapidly than most conifers and is a useful small tree for wind-breaks. It is used for fuel and coarse lumber and when treated with chemical preservatives makes fair posts or ties. Oz., 50c; ¼ lb., \$1.50.

**RED CEDAR.** Grows in all sections; very valuable timber; a fine ornamental tree. After properly planting out the Red Cedar requires less care and will stand more neglect than any other evergreen. Oz., 10c; ¼ lb., 30c; lb., \$1.00.

**JUNIPERUS ARGENTEA—White, or Silver Cedar.** A native variety of cedar, of silvery foliage. Oz., 20c; ¼ lb., 60c; lb., \$2.00.

**JUNIPERUS MONSPERMA—Dwarf Trailing Cedar.** A very hardy trailing evergreen. Oz., 20c; ¼ lb., 60c; lb., \$2.00.

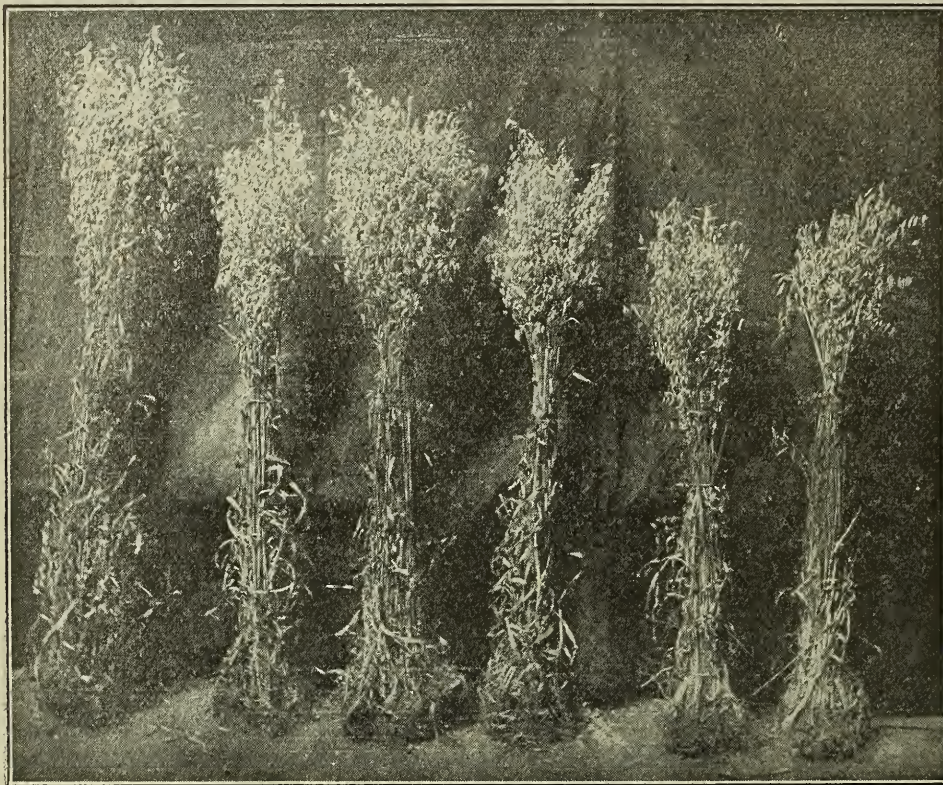




## FIELD AND FARM SEED DEPARTMENT

The prices of all Field and Farm Seeds are those ruling January 1, 1913, and are subject to change. As far as possible we will fill all orders at prices quoted, but if market values will not permit, we will send all that money re- mitted will pay for. Our latest price list will be sent free for the asking.

We give special attention to our Grain Seeds, procuring from reliable growers who select for seed. Our process for cleaning is nearly perfect. When grain seeds are shipped in seamless sacks we charge 25 cents each extra. Price for all varieties, except where noted, 6 lbs., for 25c. For larger quantity ask for our latest price list, sent free.



New Market, Swedish Select, Colorado No. 37, 1,000 to 1, Kherson, Red Rust Proof.



Speltz or Emmer.

### OATS

Add 8c per pound for postage.

No crop gives better results by change of seed than oats. If you have been re-seeding the same strain for several years, now is the time to change. Do not compare our select strains, re-cleaned, with the common oats frequently offered as seed oats.

Sow 50 to 65 lbs. per acre; on dry land 30 to 35 lbs.

**NEW MARKET.** Is one of the most desirable oats to raise. It grows very erect on large, stiff, nutritious stems, producing long heads filled with large, handsome, soft, bright colored kernels, which does not get hard and tough as most oats do. It is early, maturing a good crop in 116 to 120 days at 6,700 feet altitude, and a good yielder. We recommend it very strongly.

**SWEDISH SELECT.** A very hardy variety, specially recommended for the North. Owing to its great root development it withstands drouth very well. The grain is short, plump, white and very heavy, averaging 40 lbs. per bushel.

1,000 to 1. This is one of the best oats for dry farming. It is medium early, stands drouth well, and has produced 4 and 40 bushels per acre in dry seasons. The stalks are strong, leafy and grow about 4½ feet high. Kernels are white, short, numerous and plump.

**PEDIGREED COLORADO No. 37.** This oat is noted for its large leaf, straw, heavy weight and good quality kernel. It grows from 48 to 60 inches high in mountain valleys under irrigation. Is a heavy cropper—113 bushels, weighing a little over 45 lbs. per bushel, having been raised from 100 lbs. of seed—and is especially adapted to high altitudes. With average conditions it yields about 75 bushels per acre. It is an open panicle oat, usually with five branch whorls, and the very best milling oat, giving 76 per cent. meat to hull.

Prices, 10-lb. sealed sack, 60c; 25-lb. sealed sack, 90c. Ask for market price on large quantity.

**NEW KHERSON.** It is one of the earliest oats grown and is sometimes called "90 day oats," as it has ripened crops in 80 to 90 days. It is the very best variety to grow in the mountains or in short season districts. The plant is vigorous, but of a dwarf habit, straw being shorter than other varieties; the leaves are broad and expose a large surface. The panicles are spreading and the berries are light yellow, small but numerous and have a very thin hull. It is a good cropper and generally weighs well per bushel.

**RED RUST PROOF.** Not extensively grown, though highly recommended by those who have grown it, and is now becoming popular in Kansas, New Mexico and in the southern part of Colorado. It is a sure cropper, a heavy yielder, rust proof, and perfectly hardy. In some localities it is sown in fall similar to winter oats.

### Speltz or Emmer

It makes a good crop with almost any condition of the soil and climate.

Sow 70 to 80 lbs. per acre; on dry land 40 to 45 lbs. It is neither wheat, rye nor barley, and yet it appears to be a combination of these. It is more like wheat than any of the others mentioned. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of other grains, in fact, all kinds of animals seem to thrive on it. Speltz is claimed to be ahead of corn, superior to oats and more profitable than wheat. Yields 80 to 100 bushels of grain and as much as 4 tons of good hay per acre. Excellent for pasture and can be fed in the green state. As green grass hay food it often gives 100 leafy stalks from one seed, which shows its heavy stooing properties. The heads are somewhat similar to two-rowed barley, the spikelets being separated from each other in such a manner that the crop is not easily injured by the weather. Will grow well and produce enormous crops on land where wheat will not grow.



## Spring Wheat

Sow 60 to 80 lbs. per acre on irrigated land; 40 to 45 lbs. on dry land.

### Pedigreed Regenerated Defiance Wheat



Blue Stem, Regenerated Defiance, Macaroni.

The strain of Defiance Wheat, which was so much improved by Prof. A. E. Blount, of the Colorado Experiment Station, some 20 years ago, has now lost most of its good qualities through lack of seed selection, careless methods of threshing, seeding, irrigation and following grain with grain.

Prof. Blount, during his period of improvements, had increased the size of heads from 3 inches to 5 inches and the number of kernels from 21 to 43 on an average.

In 1903 Mr. A. H. Danielson, Assistant Agriculturalist at Colorado Agricultural College, having found a stock of pure Defiance Wheat left by Prof. Blount, started again the growing of improved Defiance Wheat, and we have secured again a limited amount of genuine Regenerated Defiance Wheat, which we offer to our customers in sealed bags only. This wheat has been approved by the Secretary of the Colorado Grain and Seed Growers' Association and been given a registration number.

**BUY REGENERATED DEFIANCE WHEAT** and increase your profit as the yield will not only be larger, but the better quality of grain will command a much higher price.

Prices, 10-lb. sealed sack, 65c; 25-lb. sealed sack, \$1.00.

Ask for market price on large quantity.

**DEFIANCE.** Ordinary stock, good seed and cleaned, but to be compared with our Blount's Regenerated Defiance.

**BLUE STEM.** This variety has no beard and is very productive. The green stems have a beautiful blue color which appears as the wheat ripens, when the stems and straw assume a golden-yellow hue. It is free from rust and its kernel is hard.

**MACARONI WHEAT "Kubanka."** The wheat for dry farming. This wheat leads all others for our Western country as it not only resists extremes of weather, but will mature a good crop when other kinds fall entirely. It grows so rapidly and strong as to get well ahead of the weeds and does well on poor ground. The berry is very hard, glossy and large, and will weigh as much as 63 lbs. per bushel. The head is compactly formed and bearded. The straw is very strong, the grain does not shell or bleach and this wheat is so hardy as to be almost smut and rust proof. It is very desirable for milling, but unequalled for feeding.

## Winter Wheat

Sow 30 to 35 lbs. on dry land.

**TURKEY RED.** This is the best winter variety for this part of the country. It is medium hard, bearded, and producing long heads. In color it ranges from dark to light red. The grain is large and less liable to shell out than most varieties. It stands drouth and open winters very satisfactorily, and is a heavy yielder.

**SILVER KING.** Liked on account of being beardless. It is medium hard, light red, of good weight, heavy cropper and winters very well. Is growing in favor quite rapidly.

## Improved Winter Emmer

A NEW GRAIN FOR STOCK FEEDING.

The original Winter Emmer was introduced from Russia, by the U. S. Dept. of Agriculture. The Improved is larger, darker in color, heavier in straw and head, is much more hardy, and has larger stooling power than the original type.

It is one of the most drouth and cold resisting winter grains. Many of the heads double the spikelets, giving the appearance of composite wheat; can be grown either by irrigation or by dry farming methods.

Sow at the rate of 1 bushel (40 lbs.), per acre, in September or October, that the grain may come up before freezing weather sets in. If you irrigate, do it before sowing or just before winter sets in. One or two harrowings in early spring will help the grain and it will be ready to harvest late in June or early in July. It should be cut before it gets too ripe and dry.

Price, 25c per lb.; 3 lbs. for 50c.

## Rye

Sow 60 to 80 pounds per acre; on dry land 30 to 40 pounds.

**SPRING RYE.** Is a quick growing crop which will give a good early pasture and later on a good cutting of hay or a grand crop of grain. Please note that in ordering spring rye we offer what is furnished us as spring rye, but make no guarantee for same.

**FALL OR WINTER.** It is a good crop for early fall or spring pasture, as it keeps green a long time in the fall, and starts growing again as soon as the weather gets a little warm. Does well in any kind of soil. There is always a good market for good fall rye for seeding purposes.

## BARLEY

Sow 60 to 90 lbs. per acre; on dry land 40 to 50 lbs.

**SCOTCH—Both 4 and 6-rowed.** This is the standard variety for brewers. It is good for feeding, not having as long beard as some other kinds. The objection of beard for feeding can be prevented to a certain extent by cutting when grain is in the dough.

**NAKED, BEARDLESS OR WHITE HULLESS.** This is decidedly distinct from the malting variety, having no beard and shelling off its hull same as wheat. It is the best barley for feeding and is rapidly taking the place of spring rye. Grows very rank and vigorously and thrives even at altitudes of 8,000 to 9,000 feet. As there is a species of Naked Barley, which has a beard, be sure to get the light colored Barley if you want the beardless. On account of its rank growth it requires less to sow an acre.

**CALIFORNIA, OR FEED BARLEY.** This is a very hardy kind, producing very large, coarse, bearded heads and an abundance of fodder. It is not used for brewing but makes the best green feed. It is used extensively in California, and is an excellent grain producer in Colorado. Stockmen are demanding it.



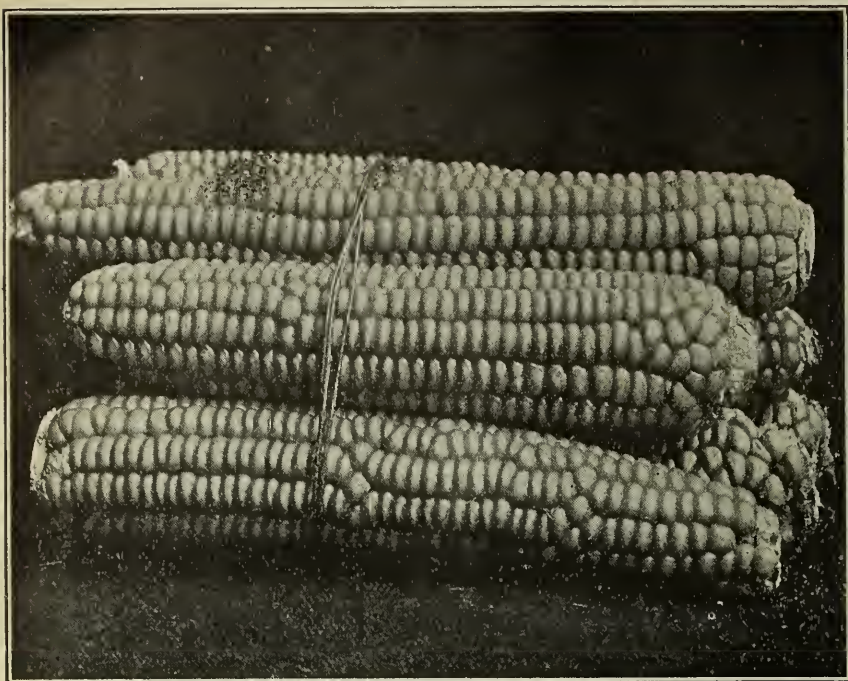
Hulless Barley.



## SELECTED SEED CORN

Postage, 5c per pound. 8 lbs. of the small kernel varieties or 10 lbs. of the large varieties, will plant an acre.

PRICES:—Liberal Packets, 5c; pound, 10c; 3-pound package, 25c. When wanting in large quantity ask for latest market prices.



White Australian.

### AUSTRALIAN WHITE FLINT (90 Days.)

The earliest and surest variety we have for Colorado and the arid lands of the West. It will actually endure more drouth and cold than any other variety known. Grows to a height of 4 to 8 feet, ears varying from 8 to 12 inches long, usually 8 or 10 rowed, one and two ears to a stalk.

### SWADLEY (90 Days.)

It is nearly as hardy as White Australian, and fully as early, and yields more matured corn. We are firmly convinced that it is the corn for uplands and worn out soils, where it produces 35 to 50 bushels of ears per acre. It stands drouth nearly as well as White Australian. It is much softer kernel, being a pale yellow dent. The ears will average 8 inches long, 12 to 16 rowed. One-third of the crop will yield two ears on a stalk, maturing in 90 to 100 days. Six pounds of seed will plant an acre, 3 feet, 8-inch check-rows. This is the corn for our short season districts. Give it a trial, you will be pleased.

### COLORADO YELLOW DENT (90 Days.)

An early Dent variety, ripening with the Flint varieties, and can be grown in almost any locality. Stalks large with broad leaves, ears 8 to 10 inches, 16 rowed, grain yellow.

### PRIDE OF THE NORTH (90 Days.)

Planted as late as July 4, it has fully matured by October 1. The ears have from 14 to 16 rows, 8 to 10 inches in length, slightly tapering. The kernels are closely set together on the cob, of a light orange color. The stalks usually grow 6 to 8 feet in height, producing one or two good ears.

### IMPROVED LEAMING (90 Days.)

This is one of the earliest large yellow Dent corns in cultivation, ripening in 90 to 100 days from planting. It is extra early, and not a hard, flinty corn. The ears are large and handsome, with deep, large grains; orange color and red cob.

### CALICO (90 Days.)

The earliest field corn grown. Growth rather short, but stalks are very leafy. The ear is small and long and grains are peculiar, some being red, blue and white on the same cob. Stands drouth very well.

### SQUAW (90 Days.)

Extremely early and of very dwarf habit; stands drouth as good as White Australian; average length of ears, 7½ inches; seed of dark purple color and sugary; makes good roasting ears.

### CHAMPION WHITE PEARL (100 Days.)

The stock is short and thick. The ear grows low on the stalk, from 10 to 12 inches in length, almost parallel throughout, of medium size, averaging 16 rows of grains. The grains are pure white, very deep, compact and heavy. The cob is small. It makes a superior quality of corn meal.

### IOWA SILVER MINE (95 Days.)

The stalk grows to a height of 7 or 8 feet, and set the ears about 3½ to 4 feet from the ground. The ears measure from 10 to 12 inches in length and often weigh 1½ pounds. They are very uniform in size and shape, with 16 to 20 straight rows of deep, pure white kernels on a small white cob.

### IOWA GOLD MINE (95 Days.)

Similar to above, except in color, which is a bright golden yellow.

### HICKORY KING (110 Days.)

This new white corn is entirely distinct from all other varieties, having the largest grain with the smallest cob. It yields greater, and is unquestionably the most productive white field corn. Stalks bear two good ears each, and occasionally three. It never has barren stalks, no matter how thin the soil, and both ends of the ear are filled out full.

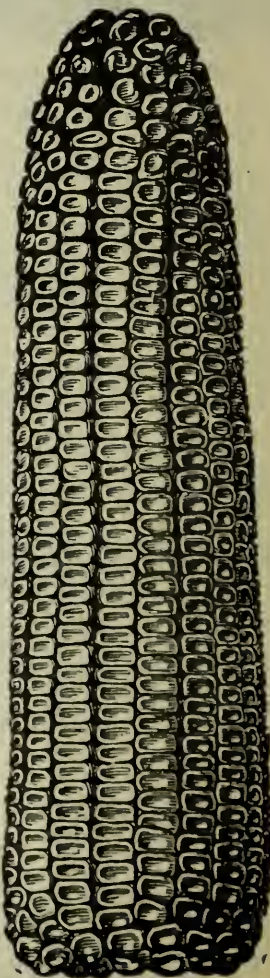
### GOLDEN BEAUTY (110 Days.)

The ears are of perfect shape, with from 10 to 14 straight rows of bright golden yellow grains, remarkable in size, and filled out completely to the extreme end of the cob. The richness of color and fine quality of grain make it vastly superior for grinding into meal.

### BRAZILIAN STOOING FLOUR CORN.

This corn stools like wheat, each kernel producing from five to eight stalks, each stalk bearing two or three ears, five to seven inches in circumference, nine to twelve inches in length, color beautiful white. It is the best variety for ensilage. It yields four times more fodder to the acre than common corn, and more bushels in shelled corn. It contains a much larger quantity of starch than any other corn and, ground and bolted by the same process as wheat, gives a finer flour for bread, biscuits, etc., than that made of wheat flour; also used largely for roasting ears. Four lbs. will plant one acre.

POP CORN	{	WHITE RICE. Kernels long, pointed, and resembling rice.	Pkt.	Lb.	3 lbs.
		QUEEN'S GOLDEN. Yellow seed, pops very large .....	\$0.05	\$0.10	\$0.25
			.05	.10	.25



Our hard earned reputation as honest Seedmen is worth too much than that we would offer anything of doubtful character. We have handled seeds for over thirty years and expect to do the same for many more years to come. The constant growth of our business is the reward for conscientious service and honest business principles in our dealings with the public.





## GRASSES FOR PASTURES

Postage 8c per pound extra.

We have men in our employ who make a study of grasses adapted to our Western country. Write us about your soil.

Particular attention is given to our Grass Seed department. These seeds are selected with special reference to quality. Every exertion made to furnish Grass and Field seeds, **fresh pure, and free** from noxious and foreign seeds. Our Red Clover, English Blue Grass, Timothy, Alfalfa, etc., are all recleaned by best machinery, to make them choice.

We cannot print prices of large quantities, as they are subject to variations, but purchasers may depend on getting them at prices ruling that date.

Market prices of the day or special prices on large lots cheerfully given on application. Express or freight charges always to be paid by the purchaser, except if sufficient money is sent to prepay them. Two bushel seamless bags, with seed, 25c each.

### ALFALFA CLOVER, OR LUCERNE.

*Medicago Sativa.*

The most valuable forage plant, is particularly adapted for our Western climate and soil. It requires a deep, mellow soil; newly broken sod does not do so well. It thrives best in a sandy loam, the richer the better, while it has not proved a success on heavy, compact, clay soil. In the dryest and most sultry weather, when every blade of grass withers, Alfalfa is as fresh and green as in the spring, as its roots go down from 10 to 30 feet to the moisture of the ground. Although a prodigious yielder, it does not exhaust the soil, but rather improves the ground by the decay of its long roots, and converts it into rich ground, full of vegetable matter. The seed may be sown early in the spring, as soon as the frost is out of the ground, in order to catch the spring rains, as it needs moisture to germinate. In localities where irrigation is used, it can be sown successfully at any time during the summer months. Most of our successful Alfalfa growers prefer sowing the seed broadcast, while others are more in favor of drilling it in. It is rather difficult to establish the first year, but will, when once started, produce a profitable crop; under favorable circumstances three and even four crops are cut yearly, aggregating five to seven tons to the acre. Never sow less than 20 pounds of good, clean seed to the acre on irrigated land, as thin sowing produces thick and coarse stalks not relished by stock. On dry land sow from 10 to 12 pounds per acre. If intended to raise Alfalfa for the seed, 12 to 15 pounds is plenty to sow on an acre on irrigated lands, or 3 to 4 pounds on dry lands. Lb., 25c. Ask for latest prices when quantity is wanted.

Write for our booklet on Alfalfa, sent free by mail.

### TURKESTAN ALFALFA.

We have imported, this season, a limited quantity for those who wish to make a trial. It is claimed to be more hardy, enduring extreme cold and a wonderful drouth resister.  $\frac{1}{4}$  lb., 10c; lb., 25c. For larger quantities ask for price.

### WHITE DUTCH CLOVER.

*Trifolium Repense.*

Excellent for pasture, and when mixed with Kentucky Blue Grass makes the finest and most nutritious food for sheep and cows; used universally for lawns in most of the United States. Sow for pastures 5 to 8 lbs. to the acre.

Fancy.  $\frac{1}{4}$  lb. pkg., 15c; 1 lb. pkg., 50c.

### WHITE BOKHARA, OR SWEET CLOVER.

*Melilotus Alba.*

Tall shrub plant. Grows from 4 to 6 feet high, with branches whose extremities bear abundant small white, extremely fragrant flowers. Splendid for bees. Sown in the spring in drills, 16 inches apart. Ten lbs. will sow one acre. Per lb., 25c.

### JAPAN CLOVER. *Lespedeza striata.*

Low perennial, spreading habit. Stands excessive drouth well; flourishes on poorest soil in the southern states. Sow 15 lbs. per acre. Per lb., 35c.

### BUR CLOVER. *Medicago maculata.*

Is mainly used in southern states and California. It fills in the season when other forage plants have become dried up by the summer heat. It does very well on alkali soils. Stock of all kinds feed on the burs, which contain a large proportion of nutritious matter. Sow 15 to 20 lbs. per acre from August till November. Per lb., 25c.



Orchard Grass.



Red Clover.

### CRIMSON CLOVER. *Trifolium—Incarnatum.*

An annual variety in common use in Italy and south France for feeding green. Also grown largely in this country in Virginia, and we find it does well in our Western states. It is meeting with favor in Texas and adjoining states. Two to four weeks earlier than the Red Clover, and for that reason being more desirable. Immense yielder of fodder. Commences to grow at once after cutting, and continues to do so until frost. Height, 1 foot; roots nearly black; blossoms long and of deep carmine color. Makes good hay. Sow in the fall in southern country. Sow 15 lbs. to the acre. Per lb., 25c.

### ESPARSETTE, OR GERMAN CLOVER. *Onobrychis sativa.*

A leguminous plant with many stems, 2 to 3 feet long, leaves in pairs of oblong leaflets hairy on under side; stalks with spikes of crimson or variegated flowers, followed by hard, flat pods, toothed and prickly. Perennial, roots hard and woody; flowers in July. Same family as Alfalfa. Adapted to light, chalky, sandy, gravelly soils and barren regions, deficient in rainfall and without irrigation privileges; will last from 8 to 10 years, according to soil. Sow seed 2 inches deep, and from 30 to 40 lbs. per acre. Price, per lb., 20c.

### ORCHARD GRASS—*Dactylis glomerata.*

No farmer should be without a small field of Orchard Grass as in many respects it is superior to all other grasses. It stands the drouth, grows well in the shade, does well in wet or poor ground, and is splendid to prevent worn out fields from washing. This grass furnishes excellent pasturage three weeks before any other, and after grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod, and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa, on average of 5 lbs. Orchard to 15 lbs. Alfalfa seed. Sow 20 to 25 lbs. per acre. Lb., 30c.



Alfalfa.

### RED CLOVER.

*Trifolium Pratense.*

Regarded the most important of the whole genus for practical agriculture; valuable not only for forage, but also as a fertilizer for the soil. Long, powerful tap-roots, which in decaying add a large amount of humus to the soil. Makes excellent hay, and can be cut twice a year. Sow 12 to 15 lbs. to the acre. Per lb., 30c.

### ALSIKE, OR SWEDISH CLOVER.

*Trifolium Hybridum.*

Comes from the little province of Alsike in Sweden. One of the hardiest varieties known; is perennial and does not winter kill; stands alike drouth or wet. A great favorite with bee-keepers, as it has flowers having a sweet and agreeable odor and affords excellent forage for bees. Sow 5 to 8 lbs. to the acre. Per lb., 30c.

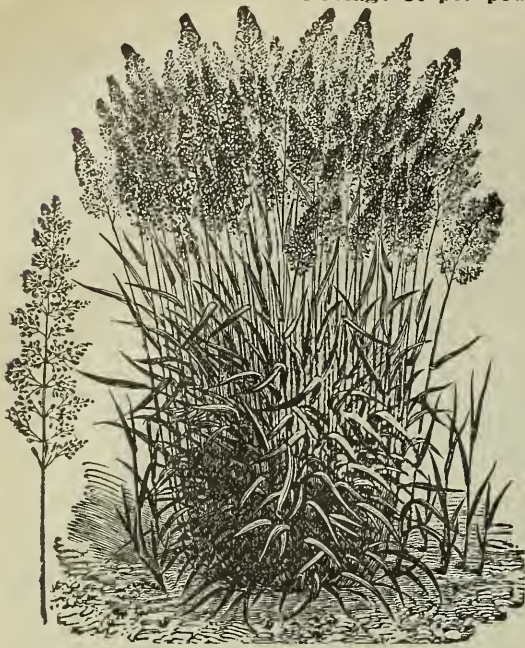
### MAMMOTH SAPLING, OR PEAVINE CLOVER.

Being a rank grower makes it most valuable for fertilizing purposes. Forage, flower and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy, Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Sow 12 to 15 lbs. to the acre. Per lb., 30c.



## GRASSES FOR PASTURES—Continued

Postage 8c per pound extra. Ask for latest prices for large quantities.



Red Top.

**RED TOP—*Agrostis vulgaris*.**

A valuable grass for moist soils. It is a good permanent grass, standing our climate as well as any other, and consequently well adapted to our pastures, in which it should be fed close for if allowed to grow up to seed, the cattle refuse it. On moist, rich soil it will grow 2 feet, and on poor gravelly soil about half that height. It has been grown successfully even on "alkali" bottom lands, where other grasses failed. We have discontinued handling the chaffy grade of Red Top, and now offer only the clean seed. Sow 15 to 20 pounds clean seed to the acre. Lb., 25c.

**TIMOTHY—*Phleum pratense*.**

As a crop for hay, Timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses; yields more nutritive matter than most other grasses or forage plants. Being an early grass, it is well adapted to spring and summer grazing, and if the fall season is favorable it will grow sufficiently to furnish good fall grazing, too. Sow 10 to 12 pounds to the acre. Lb., 20c.

**TALL MEADOW OAT, OR EVERGREEN GRASS—*Avena elatior*.**

The roots of this grass descend deeply into the sub-soil enabling it to withstand a protracted drouth, and it is green all seasons of the year. Its early growth in spring makes it equal to rye for pasture. It grows quickly after mowing, giving a denser and more succulent aftermath than any of the present popular tame grasses. Sow broadcast 25 to 30 pounds of seed to the acre. Lb., 25c.

**JOHNSON GRASS, OR GUINEA GRASS—*Sorghum halapense*.**

We find this grass winter-kills in the northern states. In the extreme southern part of this state and the southern states it does well. A perennial, a rapid grower, long cane-like roots; the leaf, stalk and panicle of this grass resembling those of Sorghums. It grows on any land where corn will grow, and like corn, will bear heavy manuring, yielding richly in rich ground. In fact, the richer the land the better the crop. Twenty-five to thirty pounds will sow an acre. Lb., 25c.

**CREeping BENT GRASS—*Agrostis stolonifera*.**

Especially recommended for lawns in country homes where depending on irrigation. It flourishes where but little moisture. Also good on terraces and sloping ground. Lb., 30c.

**PERENNIAL ENGLISH RYE GRASS—*Lolium perenne*.**

While this has long been highly esteemed in Europe and Australia, it was but recently recognized by our Western ranchers. It is worthy of all the praise given. As a pasture grass it grows quick and withstands drouth reasonably well. For pasture sow in spring 25 to 30 pounds to the acre; for lawns 60 to 70 pounds per acre. 1 lb., 15c; 7 lbs. for \$1.00.

**MEADOW FESCUE, OR ENGLISH BLUE GRASS—*Festuca Pratensis*.**

Especially adapted for permanent pasture. Grows 2 to 3 feet high, but



Per. Rye Grass.



English Blue Grass.

not in tufts like Orchard Grass. Earliest and most nutritious of grasses. Makes good hay, and cattle thrive on it, whether in dry or green state. Succeeds even in poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extreme dry weather to affect it. Sow 15 to 20 lbs. per acre. Per lb., 25c.

**BERMUDA GRASS—*Cynodon dactylon*.**

This plant has long been naturalized in the Southern states. While it is tender to freezing, it resists dry, hot weather and consequently is a valuable grass to grow over and bind the most arid and loose lands, and grows luxuriantly in every kind of soil; valuable for pasture, as well as for hay crop; time of sowing, April to June. Used for lawns in the South, as it runs over the ground, forming a dense turf. Sow 3 to 5 pounds per acre. 1/4 lb., 35c; lb., \$1.25.

**BROMUS INERMIS, OR HUNGARIAN BROME GRASS.**

A wonderful drouth resister. A grass for the stock raiser. All kinds of stock like it. Will drive out Russian Thistle, also Black Mustard.

This pre-eminent drouth-resisting grass stands at the head of all, and is destined to lead as the most satisfactory and valuable forage grass in all localities where arid soils demand a plant with ability to withstand drouth. Stands intense cold equally well. May be sown in autumn with winter wheat, or in early spring. In southern states sow in February or March, preparing lands as for other grasses. Blooms in north in June, and earlier in southern states. For hog pastures a mixture of Bromus Inermis and Alfalfa, where the latter succeeds well, is recommended by Prof. Ten Eyck of the Kansas State Agricultural Experiment Station, and he also suggests for large pastures for cattle a mixture of the following per acre: Bromus Inermis 10 lbs., Orchard Grass 6 lbs., Meadow Fescue 8 lbs., Red Clover 1 or 2 lbs. Its nature is to stool out and thus does not show its best until the second season. It seldom produces seed the first year. Aside from Alfalfa, no grass has fulfilled the promises to our Western farmers better than the Bromus Inermis. It meets drouth as well as wet and cold, and for Colorado we know of no grass to equal it. Many of our large ranchers are planting it extensively. Sow 20 to 35 lbs. per acre. Lb., 20c.

For particulars ask for special circular.

When sowing Brome Grass in quantity, get the Thompson Wheelbarrow Seeder. See Implementation Department.

## Grass Seed Mixtures

FOR MEADOWS AND PASTURES.

It is a well ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses that are especially suitable. Some sorts do best on high ground, and in dry weather; others prefer plenty of moisture. Some mature so early, and others so late, that from the beginning of spring until winter sets in there is no time when one species or another is not at its best.

In the matter of preparing the soil for pastures, it is necessary to put the ground in the best condition possible to get the best results. The soil should be perfectly even after sowing the seed. You will find that cross harrowing will be to your advantage, as it has a tendency to scatter the seed more evenly. The following mixtures will be found desirable to use for permanent pastures, as they are properly proportioned for their different uses.

For Wet Lands use Barteldes' Pasture Mixture No. 1. 1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

For Light Sandy Soil use Barteldes' Pasture Mixture No. 2. 1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 21c per lb.

For Irrigated Lands use Barteldes' Pasture Mixture No. 3. 1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

Sow liberally of either of above to get best results using 30 to 40 pounds per acre. Ask for prices on large quantities.



Hungarian Brome Grass.



## GRASSES FOR LAWN

### HOW TO MAKE A LAWN

The ground should be dug deeply and thoroughly, then a good compost of decomposed and finely pulverized manure or rich loam spread over the ground. It would be well also to give a sprinkling of bone dust. Use a slanted tooth harrow and a light or medium roller until the soil is smooth, even and firm. Then sow the seed and harrow again and smooth off with a common garden rake. When the grass has grown 2 or 3 inches in height use the lawn mower, gauged to cut full 1 inch above the ground; repeat the same as often as it grows to that height. The weeds and foul grass can be kept down and destroyed by the repeated mowing. If this is neglected they will spread and take possession of the soil, but when constantly clipped, the leaves and seed stalks are destroyed and the foul vegetation disappears.

As a guide for the proper quantity to order, we may state that one pound of Fancy Mixed Lawn Grass Seed, or "Columbine Grade" Kentucky Blue Grass, is sufficient to thoroughly sow an area of 10 feet by 25 feet—250 square feet. It should be borne in mind that in order to produce the best results grass seed for lawns should be sown at least thrice as thickly as sown for hay.

As soon as the grass has become well established a dressing of good Lawn Fertilizer is necessary to keep up that beautiful fresh appearance.

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THIS LAWN WAS SEEDING WITH  
BARTELDES' "COLUMBINE GRADE"  
KENTUCKY BLUE GRASS SEED.

Denver Court House and Lawn.

### THE "DENVER" FANCY MIXED LAWN GRASS SEED.

We have made the subject of lawns a study for many years and this mixture has been prepared and sold by us in all parts of the country, giving general satisfaction. In making a lawn great care should be taken to use only the very best quality of suitable lawn seed, so as to produce a **soft, velvety, evergreen sod.**

Put up in sealed packages: ½-lb. pkg., 20c; 1-lb. pkg., 30c; 3-lb. pkg., 80c; 5-lb. sack, \$1.25; 10-lb. sack, \$2.25.

Lawn Grass Mixture for shady places. Lb., 30c; 3 lbs., 85c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25-lb. sack, \$5.50.

### CANADIAN BLUE GRASS—*Poa compressa*.

Produces a fine foliage of dark green color, and is more hardy than Kentucky Blue Grass. It is especially adapted to light, poor, dry soils and makes very satisfactory lawns. It has somewhat a creeping habit and does not need to be clipped as often as Kentucky Blue Grass. 1lb., 25c; 5 lbs., \$1.00; 10 lbs., \$2.00.

### KENTUCKY BLUE GRASS—*Poa pratensis*.

**The Great American Grass. The Standard for Lawns. Our "Columbine" Grade is the Purest Obtainable.** The old standard grass for pasture as well as lawns. Every farmer knows it and its good qualities. Sow about 25 to 30 pounds to the acre for meadows, for lawns 120 to 150 pounds per acre.

Our **Columbine Grade** of Blue Grass is put up in sealed packages. Ask for **Columbine**. 1-lb. pkg., 25c; 3-lb. pkg., 65c; 6-lb. sack, \$1.25; 10-lb. sack, \$2.00.

## PLANTS FOR FORAGE AND GRAIN

### MAMMOTH RUSSIAN SUNFLOWER.

Single heads measure 15 to 22 inches in diameter, and contain an immense amount of seed, which is highly valued by all farmers and poultry breeders who have tried it as an excellent and cheap food for fowls. It is the best egg producing food known for poultry. It can be raised cheaper than corn, and is destined to be an article of great value. Every farmer should plant some of the seed in any waste piece of ground, or alkali ground, any time from early spring up to the middle of July. It is a wonderful improvement on the old native Sunflower, and besides the great value of the seed as poultry and stock food, its leaves make capital fodder, while its strong, thick stalks can be profitably used as fuel. It produces from 20 to 50 bushels of seed to the acre. Four to five pounds of seed will plant one acre. Selected seed, ¼ lb., 10c; lb., 25c, postpaid; 5 lbs., not prepaid, 50c.

**SUNFLOWER SEED FOR FEEDING BIRDS.** We have stock suitable for feeding that we sell at reduced price.

### FLAX SEED.

Farmers should not lose sight of the fact that flax can be raised where wheat is raised and where tried has brought better results for amount of labor invested than wheat. Soon as ample supply is offered there will be greater demand. Twenty to forty pounds will sow an acre. Lb., 10c; 3 lbs., 25c.

### CANARY SEED.

As easily grown as wheat. Requires similar culture; 20 to 30 lbs. to an acre. We are in the market for the seed. Lb., 10c; 6 lbs., 50c.

### HEMP SEED.

This is a crop that deserves more attention. The seed can be marketed with us. The fibre is in demand in eastern markets. Lb., 10c; 6 lbs., 50c.



## MILLET

Sow 25 to 40 lbs. per acre. Ask for prices on large quantities.  
Postage 8 cents per pound extra.



Siberian  
Millet.

Japanese  
Millet.

Hog Millet.

## SORGHUM OR EARLY AMBER CANE

The great fodder crop for dairymen. Dairy farmers say that the Early Amber Cane is the most valuable fodder plant in existence for their use. It is profitably grown anywhere from Manitoba to Mexico, on any good corn ground. It is but little affected by drouth. It is of the very best quality, being sweet, tender and nutritious, and **greedily eaten by cattle, horses and hogs**. Dairymen find that the cows will give more and richer milk from its use, and it is claimed that as high as 20 tons of green fodder have been grown per acre. It can be cut several times during the season if not allowed to get too high, and makes good sweet hay. Is a profitable crop also to grow for the seed, which is excellent for feeding poultry, and is very frequently ground and substituted for buckwheat flour. If sown for seed 5 to 6 pounds will sow one acre. Lb., 10c; 5 lbs., 25c.

### CANE SEED FOR FODDER.

When sown for fodder it should be sown very thickly; 60 lbs. per acre is none too much. Cut when the stalk is well filled with sweet sap—don't allow to mature. It will cure nicely and make excellent stock food. Ask for price, stating quantity wanted.

### TEXAS SEEDED RIBBON CANE, OR GOOSENECK SORGHUM.

It is the tallest and largest of the sorghum family, reaching a height of 12 feet with stems over one inch in diameter at the base. It matures from 100 to 120 days. The stalks when cut with the leaves on them make the finest silo for cattle and horses. Lb., 15c; 4 lbs., 50c.

## AUSTRALIAN SALT BUSH

The Forage Plant for Arid and Alkali Soils.

This new plant comes to us from California, where it has been tested and experimented with to a large extent. Lands that hitherto have laid barren and worthless have been rendered productive and valuable. It can scarcely be conceived that alkali soils, coated with their salts, as covered by snow, can be changed in their appearance or constituents, yet such is being accomplished most satisfactorily and with little expense by the use of the Salt Bush.

**Directions**—Sow 1 pound of seed to an acre in the spring before a rain if possible, or irrigate well, on well pulverized soil and cover it lightly (about one-eighth of an inch) with a light harrow or brush, or the plants may be grown in boxes or garden bed, covering the seeds lightly, and planting the seedlings where desired, when from 2 to 3 inches high, 6 or 7 feet apart. If the weather is dry when transplanting, supply a little water to each plant. Oz., 15c; ¼ lb., 50c; lb., \$1.00.

### GERMAN MILLET.

Few other grasses or forage plants have been able to produce the enormous yield of this plant. It has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. If sown in the spring on newly broken prairie it leaves the ground in the finest condition for wheat after harvesting it. Lb., 10c; 10 lbs., 50c.

### NEW SIBERIAN OR RUSSIAN MILLET.

It is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all the essential merits of any of the older sorts—exceeding them by far. The claims made by its introducers are that it is from two to three weeks earlier than the German Millet, is a much heavier cropper, that the hay is much finer, stalks more elastic and growing much taller, that it is rust proof, and chinch bugs do not relish it, and being of stooiling habit, requires much less seed per acre. You should try it. Lb., 10c; 10 lbs., 50c.

### JAPANESE MILLET, or "Billion Dollar Grass."

Prof. Brooks of the Massachusetts Experiment Station, is quoted as saying: "At our station it produced 60 bushels of seed, 11,297 pounds of straw, 36,000 pounds of green fodder, 21,000 pounds of hay per acre, being superior to good corn fodder in feeding for milk, and in combination with the soja bean makes a very superior ensilage. Recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements. If sown latter part of April will be ready to cut for hay by middle of July. Attains a height of from 5 to 7½ feet, according to season." We cannot recommend it in the far North. Lb., 15c; 10 lbs., \$1.00.

### COLORADO GOLDEN MILLET.

This is a cross between German and Common Millet with all the good qualities of both parents. It yields a great amount of seed and the hay is fine, juicy, with luxuriant leaves. It is harder than other millets, being perfectly acclimated to our Western country. Lb., 10c; 10 lbs., 50c.

### COMMON MILLET.

It is an annual grass, with tender, juicy and luxuriant leaves, much relished by all kinds of stock; makes good hay. 1 lb., 10c; 10 lbs., 50c.

### MANITOBA, OR HOG MILLET.

The seed is very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green, thus if cut promptly can be threshed for the seed, while the hay after being threshed will make excellent fodder. Lb., 10c; 10 lbs., 50c.



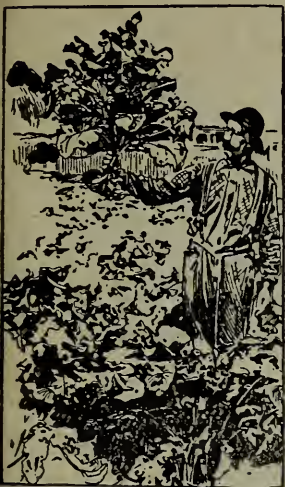
Amber Cane.





# FORAGE PLANTS—Continued

Postage, 8c per lb. extra. Prices subject to market fluctuations. Ask for market prices when quantity is wanted.



Dwarf Essex Rape.



Pencilaria.

## DWARF ESSEX RAPE—*Brassica Napius*.

Main stand-by of the English farmers in raising choice mutton. Perfectly hardy and possesses remarkable fattening properties. Easily grown. One acre will pasture 36 head two months, and lambs will make a gain of from 8 to 12 pounds per month. Pigs and cattle are also extremely fond of it. A very rank grower and bears heavy manuring and high cultivation. Sow at intervals of several weeks and secure a supply of good feed. Sown in June Rape should be fed in August, though if a first crop be cut about 4 inches from the ground an after growth would be useful later. For breeding flocks a piece should be sown first week in July or later. Does well sown with oats. If soil is rich and clean sow broadcast, otherwise in drills and cultivate same as corn. Poultrymen will do well to grow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing an excellent pasture late in the fall. Does well on alkali ground. Broadcasted it takes 8 to 10 pounds to the acre; in drills, 4 to 5 pounds to the acre. Per lb., 15c; 10 lbs. for \$1.00.

## SILVER HULLED BUCKWHEAT.

An improved sort, much excelling the old common variety, which it has about superseded with us. It blooms longer, matures sooner and yields double the amount per acre. Husk thinner, corners less prominent, and seeds of a beautiful light gray color. Flour made from this variety is pronounced better and more nutritious than others. Thirty to fifty pounds to an acre. Lb., 10c; 10 lbs., 60c.

## JAPANESE BUCKWHEAT.

A new variety that has been raised here with good results. Early and very productive, with kernels twice the size of any other buckwheat, of a rich, dark brown color and makes a superior flour. As it possesses a branching habit only half as much seed is required to plant an acre. Straw is very stiff and stands up well. Lb., 10c; 10 lbs., 60c.

# Non-Saccharines

All of the following species of corn bear dry weather well. When common corn will wholly fail for want of rain at a certain stage, these plants simply stop and wait for rain, and then go on and make their full crop. In weight of grain they will make more per acre than the same land will make of corn. Some mills have been grinding the grain for flour with good success. In the way of dry forage they make enormous returns, at a cost less than the cost of gathering that of corn. They will grow on any land where corn will, even on land too poor for corn. As soon as the seed begins to glaze, commence to cut and shock. Make the shocks 16 rows wide and the same distance in length. Balance it well, for the seed is so heavy that it will go down easily. After it is well cured stack it or house as you would ordinary corn fodder, or let it stand in the field until wanted for use. Prepare a rack in the feed lot and feed as hay. It is not necessary to thresh it. If it is desirable to separate the feed from the fodder, run the stalks through a threshing machine after removing all but one row of concave teeth. The grain will come out as clean as wheat and the fodder threshed.

## RED KAFFIR CORN.

This grows taller than the white; the stalks are slenderer, but more juicy and very leafy. The heads are long, slender compact and grow erect; they measure from 1 to 2 feet. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and matures earlier than the white variety, from 100 to 120 days, and yields much heavier. It is highly recommended by the Kansas Agricultural College at Manhattan. Lb., 10c; 5 lbs. for 25c.

## SHALLU.

A non-saccharine sorghum from India, known also under the names of California Rice Corn, California Wheat and Egyptian Rice. It is more valuable than Kaffir Corn for grain, as it yields considerably more seed and is quite a drouth resister. The heads grow similar to Broom Corn, forming large heads of round, plump white seeds. Can be popped the same as popcorn and when ground makes an excellent flour for pancakes. It is more of a grain crop than a forage crop. Sow same as Kaffir Corn. Lb., 10c; 5 lbs., 40c.

## PENCILARIA. Pearl Millet, or Cat Tail Millet.

Immensely Productive. 25 tons per acre.

A native of Central America. It is an annual plant, having long, broad foliage, and, if allowed to develop fully, will attain a height of from 10 to 12 feet, and bear numerous heads from 18 to 20 inches in length and 1 inch in diameter, completely covered with thousands of seeds, much relished by poultry. It is of rapid growth, throwing out from one plant numerous suckers, and if cut as soon as it reaches the height of 2 to 3 feet, it can be mowed from 4 to 6 times, according to latitude, and yields several tons of hay per acre. If allowed to grow 6 or 7 feet high, and cut when the flower heads begin to develop, it will yield the heaviest fodder crop per acre of any plant now in cultivation. For feeding it is equal to any fodder, and is relished either green or dry by all kinds of stock. Lb., 15c; 4 lbs., 50c.

## TEOSINTE.

Recommended as the most prolific forage plant yet introduced. The stalk, containing much saccharine matter, is very nutritious. It can be cut several times during the season, yielding enormously. One seed will sometimes produce 20 to 60 stalks or shoots, and the warmer the climate the better it yields. Should not be planted until the soil is perfectly warm in the spring. Requires about 4 pounds seed per acre. Plant in drills 3 feet apart, and 2 or 3 seeds every 12 inches in drill. ¼ lb., 30c; lb., \$1.00.

## LUPINS.

When young the plants are good for sheep. Yellow Lupins remain green longer than the white. One of the best plants for soiling. May be sown from April to July, and succeeds well in the poorest of soil. Lb., 10c.

## WILD RICE—*Zizania Aquatica*.

For Planting in Ponds.

An annual which sows itself in the fall, about the middle of September, lies dormant all winter, and in the spring commences to sprout as soon as the water gets warm, reaching the surface about the first of June. It grows very rapidly in 1 to 4 feet of water, reaches a height of 7 to 10 feet and ripens late in August or early in September. It should be planted early in the fall, before the seed gets dry, as it is hard to germinate, and before the ice forms, broadcast from a boat, in 1 to 3 feet of water having a mud bottom. It has been successfully planted through the ice in winter and in the spring, but it succeeds best when planted in the fall. If the water is over 4 feet deep, or if it is stagnant, it does not do as well as when the water is moving gently. As an attraction for wild fowl it cannot be equaled, and it is largely used on private shooting grounds to attract water fowls. In large ponds and lakes it purifies the water, affords a refuge for the small fry from the larger fish, as well as furnishing the small fry with plenty of food from the animalculae upon the stalks. It also does well along the shores of marshes, and makes a good hay. In the South two crops can be cut, and all cattle are very fond of it. If the seed has to be kept over it must be put under a few inches of water which, if not frozen, will have to be changed once in a while. Lb., 25c.

Write for our circular on Wild Rice, free for asking.



Kaffir Corn.



## FORAGE PLANTS AND NON-SACCHARINES—Continued

## WHITE KAFFIR CORN.

It grows from 4 to 5 feet high, making a straight upward growth. It has a stalky stem, with enormous wide leaves. The stalks keep green and are brittle and juicy, not hardening like other varieties of sorghum, making excellent fodder, either green or dried, which is highly relished by cattle and horses. The seed heads form at the top of each stalk, and as soon as these show the grain well the joints next below the top send up shoots which yield the second seed heads. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills. Lb., 10c; 5 lbs. for 25c.

## YELLOW MILO MAIZE.

Growth is vigorous, stooling from the ground; it sends out shoots from the joints. Seed heads grow to great size, often weighing  $\frac{3}{4}$  of a pound, sometimes a full pound after ripe. On account of its branching habit this grain should be planted in rows 4 or 5 feet apart, and 2 to 3 feet in the drill, or 2 plants in a hill, 3 to 5 feet apart. It is one of the surest crops to raise on dry ground, and is mostly grown for its seed, which contains about 80 per cent. of the feeding value of corn. Its stems make better fodder than Jerusalem Corn and Dourha, but not as good as Kaffir Corn. Lb., 10c; 5 lbs. for 25c.

## JERUSALEM CORN.

It is pronounced one of the best and surest grain crops for dry countries and seasons, even better than Kaffir Corn, Dourha and Milo Maize. It grows about 3 feet high, makes one large head on main stalk and several smaller heads on side shoots; have seen as high as 8 heads on one stalk. The grain is pure white and nearly flat. Three pounds will plant one acre. Lb., 10c; 3 lbs., 25c.

## BROWN DOURHA.

Similar to the Jerusalem Corn. Grain same size and shape, but of brown color, instead of white. It withstands dry weather better than Kaffir Corn and Milo Maize and is a sure cropper every year. Raised more for the grain than for fodder. Yields immensely. Three to five pounds will plant an acre. Lb., 10c; 3 for 25c.



Yellow Milo Maize.

## BROOM CORN

Requires soil similar to corn, same cultivation, but should be planted some later in the season. Put ground in prime condition. We think that more of our Western farmers should grow Broom Corn for market. It is profitable. Frequently planted in drills  $3\frac{1}{2}$  feet apart, leaving plants 6 inches apart; 10 to 20 lbs. to an acre.

## IMPROVED EVERGREEN BROOM CORN.

This broom corn grows about 8 to 10 feet high, stands up well and is entirely free from crooked brush. The fibre is long and fine. Its great value is that it will not get red in the field before it is cut, but is strictly a green variety, commanding high price. Lb., 10c; 10 lbs., 60c.

## THE OKLAHOMA BROOM CORN.

Originated in Oklahoma. Most valuable strain grown there and in the Southwest. Quite distinct from all others in earliness, robust habit and extreme productiveness; brush long and well fibered and is a drouth resister. Averages 5 feet in height. Seed may be let to ripen on brush without injury to latter, removing danger of heating from immature seed in bins. Stalks make excellent fodder if cut at once after brush is pulled. Lb., 10c; 10 lbs., 60c.

SANDVETCH, HAIRY OR WINTER VETCH—*Vicia villosa*.

A forage plant from Europe, highly esteemed there. The Sandvetch prospers in the most barren soils, on those too poor to grow the winter tare. Six tons per acre of green forage have been harvested in one cut in poor silicious soils, with second cut for seed or for plowing under. Sow end of August alone or with a cereal, rye preferred, as this Vetch reaches a height of  $3\frac{1}{2}$  to 5 feet high, and must have a support. Sow 30 to 50 lbs. per acre. If good growth before winter it may be cut, and again by March 15. Eaten by all farm stock. Lb., 20c; 6 lbs., \$1.00.

SPRING VETCH, OR TARES—*Vicia sativa*.

Similar in growth to Sandvetch, though for spring sowing only. Lb., 15c; 10 lbs., \$1.00.

## PEANUTS.

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay subsoil. It possesses a long tap-root, which extends deep into the earth, drawing thence the nutriment which is beyond the reach of many of our cultivated crops.

The soil should be deep and mellow and well broken up, so as to be ready for planting soon after frosts are over—April is a suitable time. They may be planted in the pod, or shelled, 2 in a hill; it is best to drop about 4 in a hill on the level ground, the rows being laid off  $3\frac{1}{2}$  feet wide, and the hills 2 feet apart; cover them 2 or 3 inches deep. When they come up thin them to 2 in a hill, and if there be any vacancies transplant. It is better to plant them level than in ridges, as they are less liable to suffer from drouth. The plant is an annual, of a trailing habit, with yellow pea-shaped flowers produced in bunches of 5 and 7, close to or even under ground. The flowers must be covered lightly with earth or they will not mature the seeds. They are successfully raised in southern Colorado, where they yield from 50 to 100 bushels per acre.

## SPANISH PEANUTS.

The earliest variety grown; pods are small, but remarkably solid and well filled, and the yield per acre very large; can be cultivated with the plow. Because of their early habit and easy cultivation it is the best variety to grow for fattening hogs. It is claimed that one acre of peanuts will produce three times as much pork as one acre of best corn. It requires about 35 lbs. of peanuts in pod to sow one acre. Lb., 20c; 3 lbs., 55c.

## WHITE, OR JUMBO PEANUTS.

Raised mostly for roasting; are not quite as hardy as the Spanish, but nuts are larger. Lb., 20c; 2 lbs., 35c.



Our "Columbine Grade"  
Field and Farm Seeds  
are the best procurable.



Follow this Trade Mark,  
it indicates the best in  
the class.



Sandvetch With Rye.



## FIELD PEAS

San Luis Valley is now feeding, wintering and fattening sheep and stock in greater number and at less cost than anywhere in the entire United States, simply with **FIELD PEAS**. San Luis Valley Peas have developed a wonderful and great industry.

They can be grown and do well at an altitude of 9,000 feet.

The Colorado Stock Pea is a hybrid, evidently the Golden Vine intermingled with the Native or Mexican Peas until now the seed has the appearance of a mixed sort, and is well acclimated to our climate, being very hardy, withstanding early frosts and growing until late fall, reaching a length of 4 to 6 feet. The vine continues to blossom as it grows, ripening peas on the lower branches and setting more pods above. The seed averages smaller than garden peas.

**Time of Sowing.** Being very hardy, the fear of rotting in the ground is not considered. The majority sow in April, although a pea-hay crop can be obtained if sown as late as July. Early sowing is best, giving full season for matured crop.

**Quantity to Sow.** When early sowing is made, 40 to 50 lbs. of seed per acre makes a crop that covers the ground and produces good tonnage. If late sowing is made, 60 to 80 pounds per acre is advisable, as the crop does not get to matured growth. Thick sowing will aid in choking out weeds.

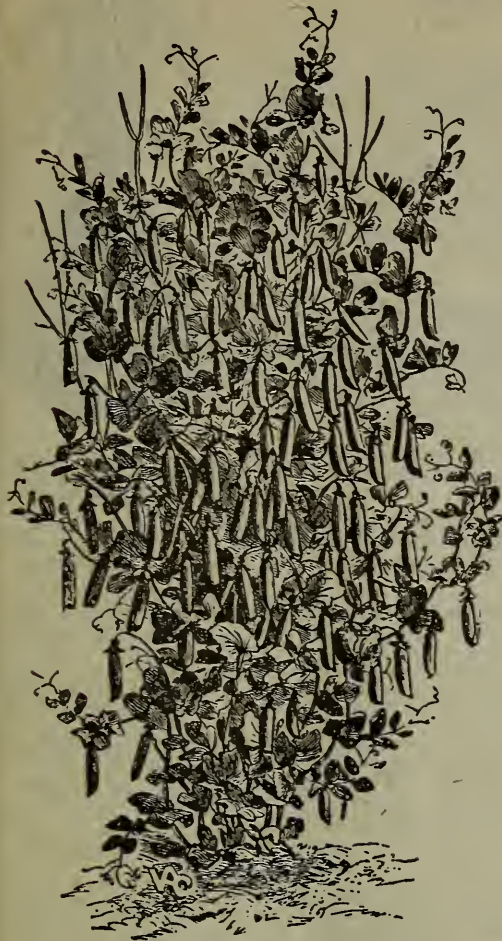
**Harvesting.** If wanted as pea-hay the growth should be at the period when the supply of nutriment in milk is in the vine just forming the pod, cut and cured like ordinary hay. This makes finest feed for dairy cattle; in fact, lambs, sheep, hogs and cattle relish this hay. If the peas are desired as dry grain allow crop to mature and handle in shocks, threshing by machine after thoroughly dry. The dry seed can be ground into a meal or fed whole.

The Colorado Stock Pea does not exhaust the soil rapidly like some crops; quite the opposite, the nitrogen taken from the air is stored in the ground through the roots. The growing crop can be plowed under when but partly matured—just in the milk—and makes an excellent fertilizer. Orchardists are learning this and consider the crop valuable for this purpose alone.

We advise all stock growers to plant liberally of Field Peas. We have supplied ourselves with seed of the **San Luis Valley**, reclaimed stock, which we offer. We also offer the Wisconsin grown **Green Canada Peas** and the northern grown **Golden Vine**.

Prices for each above fluctuate. Lb., 10c; 3 lbs. for 25c; 10 lbs., 60c. Write us when you are ready to buy in large quantity.

**WHIP-POOR-WILL COW PEAS.** This is not exactly a pea, but more properly belongs to the bean family. It is becoming known in the North, also, as a highly valuable fodder and fertilizing crop. It requires a full season to mature. If desired the pods may be harvested for the grain and the plants plowed under to fertilize the soil. The seed or grain is ground and used for cattle feed; the stalk and leaves also make excellent fodder, fed green. Poor, sandy soil may be greatly improved by plowing under a crop of Cow Peas, and thus made into a fertile loam. Plant in a thoroughly pulverized soil. If wanted to plow under for manure, sow with a grain drill in drills a foot apart. If grown for fodder or the seed, plant  $3\frac{1}{2}$  feet apart and cultivate thoroughly. The seed must not be sown until the soil has become thoroughly warm. Sow from 60 to 90 lbs. per acre. Lb., 10c; 10 lbs., 80c.



Colorado Stock Pea.

## Field Beans

**WHITE NAVY.** The standard white bean, of medium size. Plant in drills, so as to cultivate with a horse; 25 to 30 lbs. per acre. Lb., 10c. See market price for quantity.

**MEXICAN BEANS.** This is the popular bean with the Mexicans and now is grown extensively throughout Colorado, New Mexico and Arizona. The yield is tremendous. Lb., 10c. See market price for quantity.

**EARLY SOJA BEANS—Coffee Berry, also called Soy Beans.** Soja Beans are drouth resistant much more so than cow peas, but will not do as well as them on poor ground. The berries ripen in about 3 or 4 months from the time of planting and produce a crop of 20 to 40 bushels to the acre, and are as easily grown as other beans. One bushel of Soja Beans is at least twice as valuable as corn for feeding purposes.

When roasted and ground it closely resembles coffee and tastes quite similar.

Its great value to the farmer lies in the fact that when ground it makes one of the most valuable crops for feeding stock and adds greatly to the milk production. Being a rich, nitrogenous feed, it is unsurpassed as a flesh former, and like the clovers, is a soil improver, deriving its nitrogen from the air. Sow in drills 2 or 3 feet apart and 1 foot between plants. 30 to 40 lbs. will sow one acre. Do not cover more than 1 to  $1\frac{1}{2}$  inches deep.  $\frac{1}{2}$  lb., 10c; 1 lb., 15c; 2 lbs., 25c; 10 lbs., 75c. See market price for quantity.

**CASTOR OIL BEANS.** Common Ricinus are easily grown in the lower altitudes and southern part of New Mexico and Arizona. Lb., 15c.

## Lentils

A leguminous annual that flourishes in dry, sandy soil. Easily grown in Colorado. The dry seed is extensively used for soups and forms an important import article that can be produced in this country to a profit. Lb., 15c; 5 lbs., 60c.

## Jerusalem Artichokes

**Helianthus Tuberosus.** A well known vegetable, produced from tubers like potatoes, which they somewhat resemble. Most valuable food for hogs and excellent food for stock. It is claimed they are as good as bran for milch cows. Do best in light, rich soil, but will resist any degree of cold incident to the United States. Plant like potatoes and as early as the ground will permit in May. Can remain in ground all winter, as freezing does not hurt them. Yield from 100 to 300 bushels per acre. Lb., 10c; 25 lbs., 75c; 100 lbs., \$2.50; 500 lbs., \$11.00. Ask for free circular on Artichokes.

On account of Jerusalem Artichoke tubers decaying easily we cannot guarantee safe arrival of same and recommend to ship them by express.

Read our book, "Root Crops for Stock," 20c, by mail.

Ask for our pamphlet, "Root Crops for Stock Feeding," sent free on application.

## Honey Plants

### CLEOME, OR ROCKY MOUNTAIN BEE PLANT.

A native of the West. Perfectly hardy. One of the best honey-producing plants. Its blossoms is now the emblematic flower of the State Bee Keepers' Association. It is perfectly hardy, and after once sown will usually self-sow and increase rapidly. Has an attractive flower in shades of pink and crimson. Bees feed heavily on this. Oz., 20c;  $\frac{1}{4}$  lb., 45c; 1 lb., \$1.25, prepaid.



Jerusalem Artichokes.

### WHITE BOKHARA, OR SWEET CLOVER.

This is a tall, shrubby-like plant, growing to the height of 4 to 6 feet, with branches bearing numerous small white flowers of great fragrance. 10 pounds will sow one acre. Lb., hulled seed, 25c. Ask for free book, "The Truth About Sweet Clover."



# High Grade Fertilizers

Add 16 cents per pound for postage.

These fertilizers contain in a concentrated form food necessary to grow nutritious farm products in large quantity per acre at lowest possible cost in time, labor and money. They are quick in action. Do not contain weed seeds and are easily applied. We have now put up for us special brands. If you order by these names you will make no mistake. You will be wise in ordering liberally.

Lawn grass is a voracious feeder and will not thrive and hold its beautiful dark green color and velvety appearance unless it is suitably fed. The lack of this one requisite causes many poor and rusty looking lawns. Do not use barn manure, as it is apt to contain objectionable grass seeds and noxious weed seeds, which you will have to fight for years to come. It cannot be evenly distributed, the result being that one spot is over nourished while the next is starved. All these objections are obviated by using

## THE "DENVER" LAWN FERTILIZER.

This is a good article for the price, being made expressly for our trade. (Other makes called "Denver" are not our formula.) It contains 3 to 3½ per cent. ammonia, 8 per cent. available phosphoric acid, and some other rich plant foods, just the materials required to build up strong, vigorous grass shoots and make a luxuriant carpet grass. To get a good lawn begin early in the spring, rake over bare places and sow good seed, then apply the fertilizer by throwing it broadcast evenly, after which soak with water. It is a Lawn Fertilizer of exceptionally high merits. 10 lb. pail, 40c; 25 lb. sack, 75c; 50 lb. sack, \$1.40; 100 lb. sack, \$2.50.

Root of Grass showing need of fertilizer.

**ROSE GROWER.** Made especially for roses and sweet peas, and without doubt the best fertilizer to use in a flower garden. 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.40; 100 lbs., \$2.50.

Root of grass showing the effect of using Denver Lawn Fertilizer.

**OUR "DENVER" VEGETABLE GROWER.** After several seasons of experimenting with products from several leading fertilizer manufacturers, we have settled on this as our ideal fertilizer, for the grower of vegetables, also strawberries and other small fruits. It cannot be better for the price. Contains 3½ to 4 per cent. ammonia, 8 to 10 per cent. available phosphoric acid and 2½ per cent. Nitrogen. Price, 100 lb. sack, \$2.00.

**FRUIT AND ROOT CROP SPECIAL.** While this contains about the same per cent of ammonia as the Vegetable Grower, it has a greater per cent of available phosphoric acid, and likewise a greater per cent of Potash, making it quick acting, yet more lasting and especially suitable for strawberries and all small fruit. It is good for garden crops which require a full season, such as beets, carrots, onions, melons, etc.; also potatoes. Price, 100 lb. sack, \$2.00.

**SUGAR BEET SPECIAL.** This is the fertilizer that brings the greatest returns of any. The analysis indicates its quality. Having 3 per cent. available phosphoric acid and 6 per cent. sulphate of potash, it imparts to the sugar beet the very elements needed for the best results. It is likewise most excellent for fruit orchards. For increasing the yield of potatoes it has no equal. Price, 100 lb. sack, \$2.25.

**FINE BONE MEAL.** Decomposes rapidly and yet is available as a good fertilizer through second season after using. For use in greenhouses, also for growing plants, roses, etc., likewise lawns. Price, 50 lb. sack, \$1.40; 100 lb. sack, \$2.50.

**NITRATE OF SODA.** Being one of the strongest fertilizers known, great care should be exercised in its use. Booklets telling its uses and advantages mailed free. Price, lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.60; 100 lbs., \$5.00.

**LAND PLASTER.** An old established fertilizer for grass and grain crops. Price, 100 lb. sack, \$1.00.

Special prices will be given for any above fertilizers in 5 sack lots or more.

## FARMOGERM—High-Bred Nitrogen-Gathering Bacteria.

Makes Poor Soil Good Soil.

It is now generally understood that the quickest, most economical and most permanent method of adding nitrogen to soil is to plant a leguminous crop of some kind after inoculating the seed with nitrogen-gathering bacteria.

FARMOGERM is offered for this purpose. It is a pure culture of a High Bred Nitrogen-gathering bacteria. It comes in sealed bottles, and unlike any other preparation of this kind ever offered before, it is all ready for use. Just dilute with water according to directions. The carefully selected, active bacteria in Farmogerm insure quicker and larger growth of the crop inoculated, and permanently enrich the soil for future crops. The theory of inoculation is recognized by authorities as the right solution of the nitrogen fertilizing problem. The problem has been to get the right culture. Farmogerm is the right culture. We have a pamphlet which deals with the subject intelligently and at some length. Let us mail you a copy free.

FARMOGERM is prepared for the following legumes:

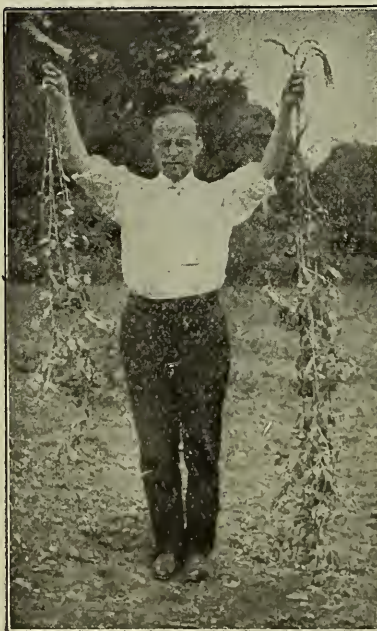
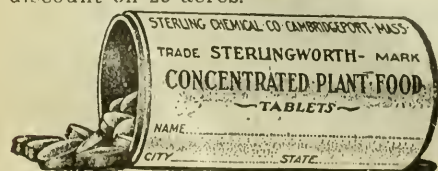
Alfalfa, Clover, Field Peas, Cow Peas, Soy Beans, Vetch, Peanuts, Garden Beans, Garden Peas and Sweet Peas.

When ordering be sure and state for what crop Farmogerm is wanted.

We can supply in GARDEN SIZE a mixed culture for Peas, Beans and Sweet Peas, also White Clover for lawn, at 50c a bottle.

The U. S. Department of Agriculture says: "In new regions, where Alfalfa, Clover and other leguminous plants have not been cultivated, very few soils have enough of these bacteria in them to be of any practical value, and inoculation is essential."

The price is \$2.00 an acre, 10 per cent. discount on 25 acres.



down Garden," free with purchases if asked for. Price, ½ lb. pkg., enough for 20 plants three months, 15c; by mail, 25c; 1 lb. pkg., 25c; by mail, 40c.

## "STERLINGWORTH" PLANT FOOD TABLETS.

A new, scientific, odorless fertilizer for house plants and vegetables. Contains nitrogen, ammonia, phosphoric acid and potash (nitrogen, 6 per cent; as ammonia, 7.3 per cent; phosphoric acid, 12 per cent; potash or oxide, 6 per cent.) Put up in two sized packages, suitable for mailing. The large size contains tablets (sufficient for 35 plants three months.) Price, 25c, postpaid. Small or trial size contains 30 tablets (sufficient for 10 plants three months.) Price, 10c, postpaid.

**JAPANESE PALM FOOD.** Produces a luxuriant foliage of rich texture on ferns, palms, rubber plants, etc. Price, 15c; by mail, 25c.

## BONORA.

The recognized fertilizer of modern times. Used with eminent success by the prominent growers of the country. The actual results from the use of "Bonora" have been demonstrated fully, and are really beyond the expectations of those who have used it. There are many so-called fertilizers on the market, but "Bonora" takes the lead and stands alone in the fertilizer world. Is establishing a reputation for itself second to none, as it never fails to give entire satisfaction. For plant life of every variety it is invaluable, and the use of "Bonora" is a luxury to the early vegetable raiser, as it matures a crop 2 to 3 weeks earlier, greatly improving it in every detail—a thorough test will convince the most skeptical, when instructions are carefully followed, and those are so simple that the most inexperienced grower can carry them out.

Has been used on the Capitol Grounds of Washington, D. C., with great success.

**Dry Powder**, which dissolves readily. Trial size, ¼ lb. pkg., making 56 pints solution, 25c; by mail for 35c. One lb. size pkg., making 28 gallons solution, 50c; by mail for 70c.

## WALKER'S EXCELSIOR PLANT FOOD.

Just what your house plants need. It is odorless and it is safe to use. Dissolves readily in water, and takes the place of liquid manure. Each package contains full directions. A valuable booklet, "The Win-



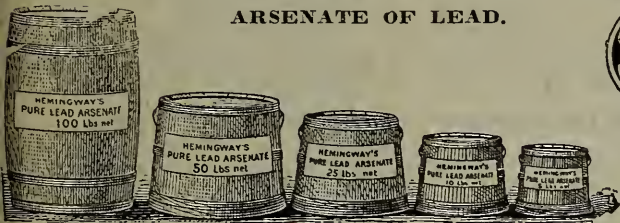


# Insecticides

Liquids cannot be sent by mail. When powder insecticides are wanted by mail, postage must be added at the rate of 16c per lb.

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop of fruit. The largest and most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in a spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. Will furnish table giving formula for making mixtures and directions for application of same on request.

## ARSENATE OF LEAD.



An effective insecticide for leaf-eating insects and particularly suitable for very tender foliage, being perfectly safe to apply in any strength without danger of scorching. Will not wash off by ordinary rains. It is now the most popular and successful insecticide used in the popular fruit districts of Colorado. Use 6 lbs. to 100 gallons of water. Any of our spray pumps with fine nozzles will apply it. 2 lb. jars, 50c; 5 lb. pails, \$1.00; 10 lb. pails, \$2.00; 25 lb. pails, \$4.00; 50 lb. pails, \$7.50; 100 lb. kegs, \$14.00.

**Powdered Arsenate of Lead.** 5 lb. can, \$1.50; 10 lb. pail, \$3.00; 25 lb. pail, \$6.75.

## BARTEDES' SMUT COMPOUND—Liquid.

It is put up especially for us after our own formula and is very simple to use. One bottle is sufficient for one ton of grain. Directions on each bottle. Price, 50c.

## BORDEAUX MIXTURE—Liquid.

Concentrated liquid to be diluted before using. Prevents black rot, mildew and rust. Qt. can size, 50c; gal. can, \$1.25; 5 gal. can, \$5.00.

## BLUE VITRIOL—Sulphate Copper.

In crystals ready to dissolve. 1 lb., 15c; 4 lbs. for 50c; 9 lbs. for \$1.00. When wanting large quantity ask for prices. Copper Sulphate Solution is made by dissolving 1 lb. of Copper Sulphate in 20 gallons of water.

## CHLOROLEUM—Liquid.

Non-poisonous yet very effective of ridding lawns of ants. Drives roaches away. Makes a very satisfactory disinfectant and antiseptic. 6 oz. bottle, 25c; pint, 40c; qt., 60c; ½ gallon, 90c; gallon, \$1.50.

## FIR TREE OIL—Liquid.

A most popular and best allround insecticide for greenhouse and house plants, especially for mealy bug, scale, red spider, black and green aphid, thrip, lice, worms and slugs. Full directions with each bottle. Small bottle, 25c; ½ pt., 40c; pt., 75c; qt., \$1.25; gallon, \$4.00.

## FORMALDEHYDE. "Bartco Brand"—Liquid.

For the prevention of smut on grains; it is easy to apply. One bottle, diluted with 40 to 50 gallons of water is sufficient to treat thoroughly 30 bu. of wheat or barley for smut; 40 bu. of oats for smut; or 60 bu. of flax for wilt. 16 oz. bottle, 50c.

## KEROSENE EMULSION—Liquid.

For plant lice of any kind, cabbage worms, scales, insects on trees, etc. Recommended especially for maple tree scale. Ready for use by adding 25 to 50 parts of water to 1 pint of emulsion. Qt. 50c; gallon, \$1.25; 5 gallon can, \$5.00.

## HAMMOND'S SLUG SHOT—Powder.

Recommended to destroy potato bugs and those on tomato and egg plants, currant worms, cabbage lice and worms, fleas, beetles and striped bugs on melons, turnips, beets, onions, etc.; canker worms and caterpillars on fruit and ornamental trees. 1 lb. carton 15c; 5 lb. pkg., 50c; 10 lb. pkg., 90c; 25 lbs., \$2.00.

## INSECT POWDER.

None better. Don't be deceived by any low priced article. ¼ lb., 20c; ½ lb., 30c; 1 lb., 50c; 5 lb. pkg., \$2.25.

## LEMON OIL—Liquid.

One of the cheapest, safest and most effective insecticides. Destroys all insects on leaves and roots of plants without injury to flower or foliage, leaving no foreign odor. Dilute with 30 to 50 parts of water. ½ pt., 25c; pt., 40c; qt., 75c; ½ gal., \$1.25; gal., \$2.00.

## LIME AND SULPHUR SOLUTION—Liquid.

For San Jose scale. This is one of the best San Jose scale destroyers and the easiest to use. It is a clear, deep cherry liquid free from sediment. It is ready for use just as you get it without boiling and only needs one gallon of solution to be mixed with 12 gallons of clear water. ½ barrel, \$8.00; 1 barrel, \$12.50.

Ask for price on large quantities.

## NICO-FUME—Liquid.

An effective insecticide which contains 40 per cent. nicotine. ¼ pt. can, 50c; pt. can, \$1.50.

## NIKOTEEEN APHIS PUNK.

Especially prepared for extermination of green and black fly, thrip, etc., in greenhouses and conservatories; also effective in killing caterpillars on shade and fruit trees. Pkg. of 12 rolls, 60c; postpaid, 70c.

## PURE PARIS GREEN.

Sealed pkgs., ¼ lb., 15c; ½ lb., 25c; lb., 40c. Large quantity at market price.

**Paris Green Solution.** For small fruits, also for cherries, plums, peaches, apricots, etc., dissolve 4 ozs. Paris Green to 60 gallons of water, add to this 10 lbs. of fresh slacked lime. For apples, pear and all shade trees, 8 ozs. of Paris Green to 60 gallons water and 15 lbs. of lime. The lime is very necessary to prevent burning of the leaves; it also makes Paris Green more soluble.



## SCALECIDE—Liquid.

A concentrated soluble oil solution which mixes instantly with water and stays mixed. Can be diluted at the rate of 1 gal. to 15 or 20 gals. of water, and for many purposes, 1 gal. to 40 or 50 gals. of water. It needs nothing else with it. Is a perfect destroyer of all scale and insect pests, but will not injure the trees. Will not clog the finest sprayer. Can be applied any time in the year. 1 qt. can, 40c; 1 gal. can, \$1.00; 5 gal. can, \$4.00.

## POWDERED SULPHUR.

Lb., 10c; 4 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00. Large quantities at market price.

## SULPHO-TOBACCO SOAP.

This popular insecticide gives excellent satisfaction, and never fails to quickly exterminate all insect life on plants, flowers, shrubs, etc. It is cheap, effective, clean and harmless. 3 oz. cake makes 1½ gallons of prepared solution. 10c, by mail, 13c; 8 oz. cake makes 4 gallons, 20c, by mail, 28c; 10 lb. box, not prepaid, \$3.00.



## TOBACCO PRODUCTS.

Tobacco, when correctly applied, is a very effective insecticide.

**To-bak-in-e Fumigating Paper.** A slow burning paper especially prepared and thoroughly saturated with pure nicotine, making its vapors sure death to aphid, red spider, thrip and all insects infecting greenhouses. It will not injure the most delicate flower. Per box of 24 rolls, 75c; by mail, 85c. Per case of 288 rolls, \$6.50, not prepaid.

**To-bak-in-e Liquid.** A concentrated solution of nicotine, containing definite amount adjusted by chemical assay. Contains no ammonia. May be used as a spray or vaporized. ½ pint, 40c; ¼ pint, 75c; ½ pint can, \$1.35; 1 pint can, \$2.50.

**To-bak-in-e Fumigating Powder.** This powder is superior to tobacco dust, having the ammonia extracted, and positively contains no adulterations. 50 lb. sack for \$2.00; 100 lb. sack for \$3.75.

For full information regarding these products ask for booklet, "Words of Wisdom."

## TOBACCO DUST.

To drive off green lice in hotbeds. Lb., 10c; 10 lbs., 50c; 25 lbs., \$1.00; 100 lbs., \$3.50.

## TOBACCO STEMS.

For fumigating. 10 lbs. for 40c; 25 lbs. for 65c; 100 lbs. for \$1.50.

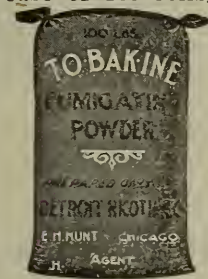
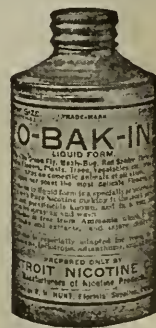
## WHALE OIL SOAP—(Fish Oil.)

Used in the greenhouse, nursery and anywhere that insect life exists. Per lb., 15c; 5 lb. box for 60c; 50 lb. box for \$4.00; 100 lb. box, \$7.50.

**Whale Oil Soap Solution.** Dissolve 2 ounces of soap to 1 gallon of water for all small fruit. For large fruit trees, shade trees, etc., use 3 ounces of soap per gallon.

## WHITE HELLEBORE—Powder.

For currant worms, etc. A solution of one ounce of white hellebore to 3 gallons of water is very effective for slugs, and not dangerous to apply when fruits are soon ready for eating. ¼ lb., 10c; ½ lb., 15c; 1 lb., 25c; 5 lb. pkg., \$1.00.





## PEST EXTERMINATORS

Add 16c per lb. for postage.

### BARTELDES' GOPHER KILLER—Liquid.

It is a quick and positive exterminator for gophers, ground squirrels or prairie dogs that burrow deeply in the ground. It is not as effective for moles or other burrowing animals that follow along close to the surface of the ground, for the reason that the gas escapes through the thin layer of surrounding earth. Price, 1 qt. can, 75c.

### POISONED WHEAT.

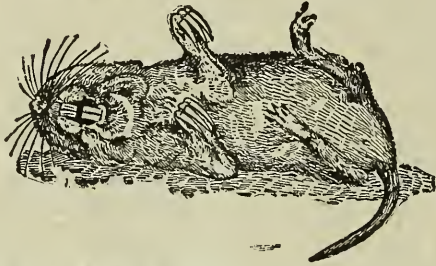
For exterminating prairie dogs, gophers, etc. 1-lb. carton, 20c; 5 to 10 lbs. at 15c lb.; 15 to 25 lbs. at 12½c lb.; 50 to 100 lbs. at 10c lb.

### GOPHERGO.

A sure death to gophers, squirrels, prairie dogs, rabbits, rats, mice and all other rodents. It is an attractive bait, thoroughly poisoned and guaranteed to do the work. Put up in 25c, 50c and \$1.00 cans. Directions on each can.

## GOPHERGO

(Machine Poisoned Raisins)



### ANT EXTERMINATOR.

A non-poisonous powder which will kill or drive away ants from lawns. Box, 25c; by mail, 35c.

### COLUMBINE DANDELION KILLER—Liquid.

Kills Dandelions and Ants. Directions: Place small quantity in center of plant and leave for a couple of days, when plant will die. Guaranteed to kill or money refunded. Don't sprinkle lawn same day that plant is treated. Price, pint can, 25c.

### SULPHATE OF IRON—Powder.

Will kill dandelions and all weeds having broad and hairy leaves without injury to grass. 4 lbs., 25c; 25 lbs., 90c; 50 lbs., \$1.50; 100 lbs., \$2.75.

### STERLINGWORTH LAWN COMPOUND—Powder.

Kills all the weeds having a broad or hairy leaves but not the grass and makes the lawn green and velvety. One pound will dress 100 to 200 square feet. Price, 5 lb. can, 60c; 10 lb. can, \$1.00.

### STERLINGWORTH WEED KILLER—Powder.

It is a powerful and effective compound. One application will destroy in 12 to 72 hours weeds, grass (including Milk Weed and Witch Grass), Briars, Dandelions, Daisies and all vegetation with which it comes in contact. One pound will make 15 gallons of solution. Price, one pound package, 50c.

### FORMULAS TO KILL GRASSHOPPERS.

**No. 1.** 100 lbs. of bran, 8 lbs. sugar, 1 lb. saltpeter and 4 lbs. Paris Green. Dissolve the sugar and saltpeter, then add the Paris Green and enough water to moisten the bran well, but not wet enough to destroy its slight adhesiveness; then scatter it all over the field.

**No. 2.** 1 part Paris Green, 2 parts salt, 40 parts horse dung, by measure, all to be mixed with water till soft, but not sloppy, and scatter over the infested places.

## What Crops to Spray and When to Spray

Never spray a tree when flowers are open, nor use mineral poison 4 or 5 weeks before crops are harvested.

**APPLE.** For canker worm, codling moth and scab, spray Copper Sulphate Solution before buds start. Second spraying, using Bordeaux Mixture and Paris Green just before flowers open. Third spraying, using same, a week after blossoms have fallen, and once more three or four weeks later.

**APRICOT, PEACH AND PEAR.** For blight, leaf curl, mildew, codling moth and curculio. Use Copper Sulphate Solution before buds start. A week after blooms have fallen use Bordeaux and Paris Green and repeat three or four weeks after.

**BLACKBERRY AND RASPBERRY.** For rust cut out diseased canes; spray with Copper Sulphate before growth starts. When new canes are one foot high spray with Bordeaux Mixture. Two weeks later use weak Copper Sulphate Solution. When crop is gathered cut off old canes and spray with Bordeaux Mixture.

**CABBAGE.** For worms and fleas. If cabbages are not heading use Kerosene Emulsion for fleas and Copper Sulphate for worms. If heading, use one teaspoonful of salt-peter to one gallon of water and spray the plants.

**CHERRY AND PLUM.** For rot, fungous diseases, curculio and slug. As buds start, spray with Copper Sulphate,

remove all diseased branches and burn them. When fruit has set, spray a second time, using Bordeaux Mixture and Paris Green, and as often as it may be needed after that.

**CURRENT AND GOOSEBERRY.** For mildew and worms. As soon as the leaves open or as soon as worms appear, use Bordeaux and Paris Green and repeat at intervals of two weeks as often as needed. Hellebore can be used instead of Paris Green and Bordeaux.

**POTATO.** For scab soak seed for one or two hours in a solution of 1 ounce of Corrosive Sublimite (bi-chloride of mercury) to 20 gallons of water. When beetles or larvae appear use 1 lb. of Paris Green to 100 lbs. of Land Plaster. For blight use Bordeaux Mixture.

**ROSE.** For red spider or aphid use Kerosene Emulsion; for mildew or black spot use a weak Copper Sulphate Solution; for slug spray Arsenate of Lead or Hellebore.

**STRAWBERRY.** For rust, use Bordeaux and Paris Green just before blossoms open and a week after blossoms fall, but no more till after crop is gathered.

**TOMATO.** For rot, blight and worms. Before first fruits set use Bordeaux and Paris Green; after fruiting use a weak Copper Sulphate Solution.

## Dusters and Sprayers



BELLOWS.

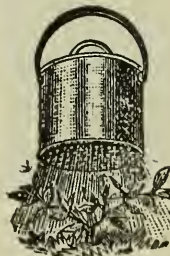
For powder. No. 14 holds 4 ozs. Each, \$1.10. No. 19 holds 8 ozs. Each, \$1.35.

### POWDER DUSTER.

Can be used for sifting on any powder insecticide. Perforated bottom. One-half gallon size, each, 50c.

### BARTELDES' FAULTLESS SPRAYER.

The best low priced tin sprayer on the market. It throws a spray as fine as steam, and is very useful for applying Liquid Lice Killer in cracks and crevices about the poultry house, roosts, nest boxes, etc.; also about the hog pens. It is more economical of the insecticide than a paint brush or other means of application. For applying insecticides onto rose bushes, shrubs, etc., it is unequalled, and should be in the hands of every gardener, fruit grower and poultry keeper. Price, 75c.



Powder Duster.



Powder Gun.

### POWDER GUNS.

**Jumbo Gun** is designed for use with our Persian Insect Powder; also the various powder insecticides. Holds four ounces. Will outlast several of the cheaper guns. Price, 30c, postpaid for 35c. Small size, "Star," holds two ounces, 15c, postpaid.



Rubber Plant Sprinklers.

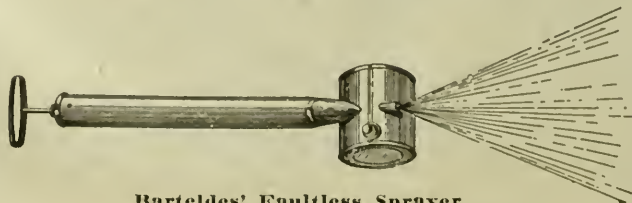
### SCOLLAY RUBBER PLANT SPRINKLERS.

The very best. When once used you will wonder how you got along without it. For sprinkling plants, applying insecticides, etc., will last a lifetime.

No. 1, large, \$1.00; by mail, \$1.10. No. 2, large with bent neck, \$1.00; by mail, \$1.10. No. 3, medium, 75c; by mail, 80c. No. 4, small, 60c; by mail, 65c.

### Special Offer.

Add to above prices 25 cents and receive an 8-ounce cake of Sulpho-Tobacco Soap. For 10 cents we will include a 3-ounce cake. Those taking advantage of this special offer will receive, if asked for, a valuable booklet, "The Window Garden, How to Care for It, and What to Grow in It."



Barteldes' Faultless Sprayer.



## SPRAYERS—Continued.

## AUTO-SPRAY No. 1.

It may be used where any bucket or Knapsack sprayer can be used, and with much more satisfaction.

Eight or ten strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. The "Auto-Spray" is light and a boy can carry it with ease and cover ten times more area in a day than can be covered with the old style sprayers which require the operator to be constantly pumping in order to do the spraying. The "Auto-Spray" does the work as fast as a man can walk. It will spray every solution that any other pump will handle, including white-wash and cold water paint.

Descriptive circular sent on application. Price: Auto-Spray with galvanized iron tank holding 5 gallons, and stop-cock, \$4.50; with brass tank, \$6.75.

Auto-Pop, which is a patented device for controlling the spray and cleaning the nozzle aperture, each, \$1.00; extra extension brass pipe 2 feet long, each, 50c; underspray attachment made of brass, each, 50c.

## NOVELTY TIN SPRAY PUMP.

Is used in a bucket. Has four nozzles. Is especially adapted for throwing insecticides on bushes, whitewashing chicken houses, etc., also washing windows, buggies, etc. Price, complete, \$1.25.

ATTACHMENTS FOR SPRAYERS.  
NOZZLES.

Deming Vermorel with degorger affords a conical discharge. A very popular nozzle. For  $\frac{1}{4}$ -inch pipe. Price, 75c, postpaid.

Double Vermorel Nozzles. Two nozzles with connecting piece. Price, complete, \$1.75.

Bordeaux for a fan-shaped spray. Will also throw a solid stream. Price, 75c, postpaid.

## RUBBER TUBING.

For use with Spray Pumps.  $\frac{3}{8}$  and  $\frac{1}{2}$  inch. 3-ply, 12c per ft.

## EXTENSION RODS.

Bamboo. 8 ft. Fitted with brass stop cock and ready for nozzle. Complete for \$2.00.

Iron. Fitted ready for use. 4 ft. long,  $\frac{1}{4}$  inch, each, 85c; 6 ft. long,  $\frac{1}{4}$  inch, each, \$1.00; 8 ft. long,  $\frac{1}{4}$  inch, each, \$1.25; 10 ft. long,  $\frac{1}{4}$  inch, each, \$1.50.

## BRASS SYRINGES.

Well made instruments, suitable for use in applying thin liquid insecticides in greenhouses, etc. Style B, 13 $\frac{1}{2}$  inches long, 1 3-16 inches diameter. Price, \$2.75.

## FUMIGATORS.

Galvanized Iron. Used for fumigating greenhouses, etc. Small size, No. 2, \$2.00. Large size, No. 3, \$2.50.

## DEMING'S SPRAY PUMPS

WE CARRY A FULL LINE OF REPAIRS AND PARTS FOR DEMING SPRAY PUMPS.

No. 662. Universal Success Pump. With various attachments to make it either a Spray Pump, Plumber's Force Pump, Whitewasher or a Fire Extinguisher. No. 662 is fitted regularly with a galvanized tank holding five gallons. The galvanized iron will not withstand the action of the Bordeaux Mixture, Lime, Sulphur and Salt Solutions or Ammonical Solution of Copper Carbonate. In case these preparations are used a brass tank will be furnished.

All working parts of pump are brass, including brass ball valves. A sliding cover is prepared to prevent the liquid from splashing out. The air chamber, which is also brass, allows a good pressure to be maintained for each of the various purposes.

Price, complete with galvanized iron tank, \$7.00. Price, complete with brass tank, \$9.00.



No. 662.



No. 669.

No. 669. "The Prize." Has brass working parts with bronze ball valve and malleable foot rest. Is the best pump for the price that has ever been offered. Is furnished with Acme Nozzle. Price, without bucket, \$3.00.

No. 689. "Perfect Success." All parts coming in contact with the liquid are brass with indestructible bronze valves. Malleable iron combination foot rest. Has large air chamber and is double acting, throwing a continuous stream. Is provided with Bordeaux Nozzle and four feet of discharge hose. Price, complete, as shown in cut, except bucket, \$5.00.

We can furnish a 7-foot section hose with couplings and pole-holder to be used in extending the spray to fit either No. 669 or 689 pumps, for \$1.50.



Fumigator.



No. 689.

No. 550. The "Simplex" Barrel Spray Pump. The popular orchard sprayer with mechanical agitator and brass working parts.

The air chamber is large and insures a constant stream. The agitator agitates. The discharge has a Y connection.

Pump with outfit "A." Consisting of 12 $\frac{1}{2}$  feet  $\frac{1}{2}$ -inch hose, a Bordeaux Nozzle and pole connection, all complete ready for use. Price, \$12.00.

Barrel not furnished with pump.



No. 550.

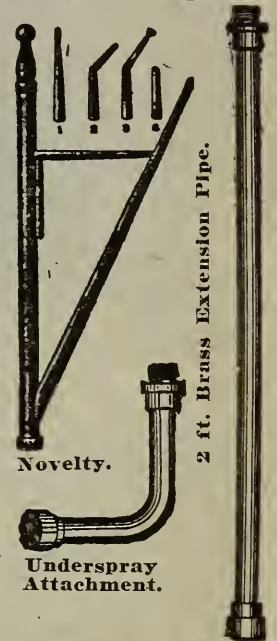


No. 675. The "Success" Knapsack Sprayer. Has a 5-gallon copper tank, a brass pump with bronze ball valves and extra wide straps. Price, \$14.00.

No. 654. The "Prize" Knapsack Greenhouse Sprayer. Is provided with a special attachment for clamping the pump to galvanized iron tank and has a handle by which tank may be carried about after removing the lever and its handle; in this way it can be used similar to a bucket pump. Price, \$9.00.



No. 1 Auto-Spray.





## SPRAY PUMPS—Continued.

## THE CAPTAIN BARREL SPRAYER.

The pump is made with 1½-inch Brass Tube Cylinder; has Brass Ball Valves and Valve Seats, and Brass Plunger with improved packing. The Air Chamber is ample in capacity, and is made of 2¼-inch boiler tubing. The Discharge Connection is fitted for ½-inch hose. It has an improved adjustable clamp for attaching rigidly to the inside of barrel. The Agitator is simple in construction and very efficient.

Pump with outfit A, price, \$11.00.

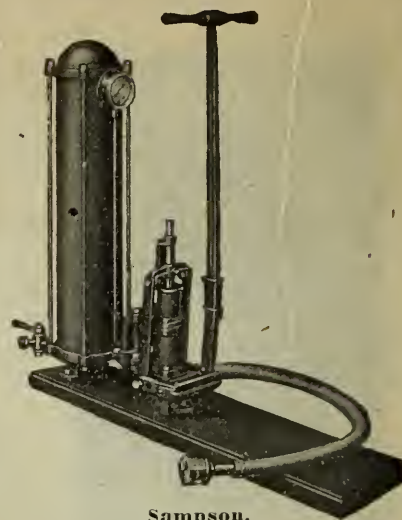
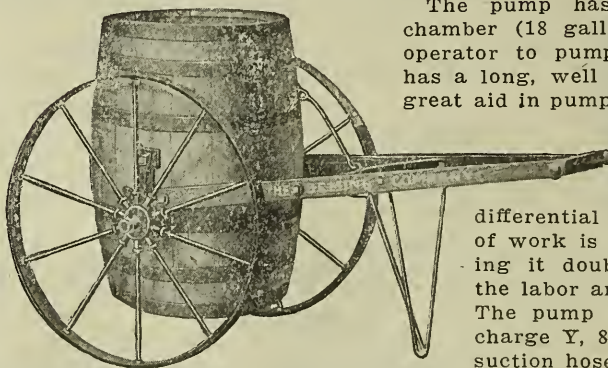


The Captain.

## No. 650. BARREL CART.

This cart is very handy, as it dispenses with horse and wagon for spraying orchard or large fields. It carries nicely a 50-gallon barrel, which can be readily disconnected or attached to it. Price, cart only, \$10.00.

With each of these Deming Sprayers we give a valuable book free, "Spraying for Profit." Publisher's price, 20c each. We have many other styles of the Deming Pumps. Ask for special catalogue.



Sampson.

## THE SAMPSON DOUBLE ACTING SPRAYER.

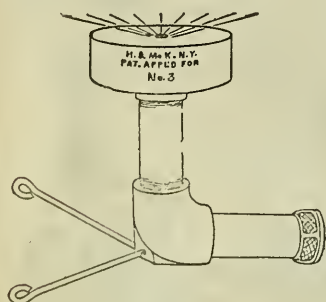
## For Barrel or Tank.

The pump has an extremely large air chamber (18 gallons capacity) allowing the operator to pump and rest alternately. It has a long, well balanced lever, which is a great aid in pumping. The cylinder is brass-lined and all other working parts including the ball valves and seats are brass. Having a differential plunger, an equal amount of work is done on both strokes making it double-acting, which decreases the labor and increases the work done. The pump is furnished with one discharge Y, 8 feet of 1¼-inch wire lined suction hose and strainer. Price, \$35.00.

## LAWN REQUISITES

## SHOWER SPRAYER.

This is a new sprayer which throws an even gentle spray over an area 25 feet in diameter; it resembles a natural "shower" more closely than any other sprayer. The nozzle can be used for washing sidewalks, buggies, etc., by simply unscrewing the sprayer. It stands 6 inches high and fits a standard ¾-inch connection. Holder and nozzle, complete in box, \$2.00; by express, not prepaid.



"Shower" Sprayer.

## COMBINATION SPRINKLER.

This sprinkler will not only sprinkle a full circle, but, by means of a cut off, the spray can be regulated so as to cover a fraction of a circle only. This is particularly desirable in sprinkling near the sidewalk. Price, each, 90c; by mail, \$1.15.

## THE LAWN TWIN SPRINKLER.

Is a combination of simplicity, neatness and effectiveness. The two orifices distribute the water with the utmost freedom and completeness. Its location can be changed with ease, while working, with the aid of wire or cord attached to the eye between the bulbs. Price, each, 35c; by mail, 50c.



Boston Rose Spray.

## BOSTON ROSE SPRAY.

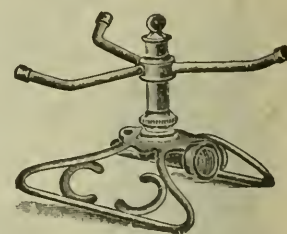
Brass, 3-inch flat face. Fine or coarse for ¾-inch connection, 60c; by mail, 65c.

## PRESTON SPRINKLER.

This is one of the most effective sprinklers in the market. It gives a fine spray, covers a large circle, distributes the water evenly and presents a very attractive appearance. Each, \$1.15; by express, not prepaid.

## PLUVIUS SPRINKLER.

Resembles the Preston, but stands higher, the head and arms being ball bearing, spin with little friction and distribute the water over a large area. Each, \$1.25; by express, not prepaid.



Preston Sprinkler.

## THE OAKLAND NOZZLE.

This nozzle throws a good solid stream and a spray with no back pressure on the hose; made in ¾-inch size only. Each, 35c; by mail, 45c.



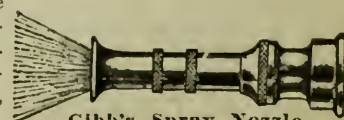
The Oakland Nozzle.

## MYSTIC NOZZLE.

The difference between this nozzle and Gibbs is that it has no way of shutting the stream off. Price, 25c; by mail, 30c.

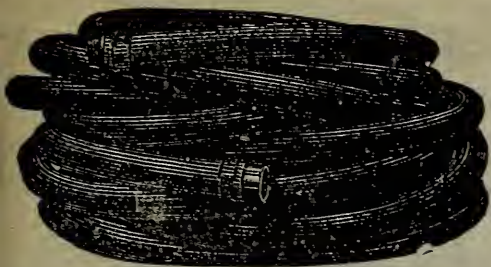
## GIBB'S NOZZLE.

Great improvement over the Mystic and Gem, the spray being controllable to the slightest degree. Fits ¾-inch connection. Each, 35c; by mail, 40c.



Gibb's Spray Nozzle



**Rubber Hose.**

$\frac{3}{4}$ -inch size. Price, 25 ft., \$5.00; 50 ft., \$9.25.  
 $\frac{1}{2}$ -inch size, 25 feet, \$4.25; 50 feet, \$8.00.

**RUBBER HOSE.**

**Barteldes' Columbine Grade.** 5-ply Sun-resisting — fully guaranteed — fitted with couplings:

Price.  
 50 ft.,  $\frac{1}{2}$ -in.. \$5.50  
 50 ft.,  $\frac{3}{4}$ -in.. 6.00

**Corrugated Non-Kinkable Hose.**

The strongest hose made, fitted with couplings,

**LITTLE GIANT GRASS HOOK.**

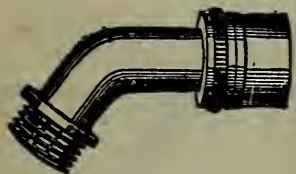
Is a miniature scythe and cuts like a scythe. Handy for lawn, clipping hedges, etc. Price, 50c.

**GRASS TRIMMING SHEARS.**

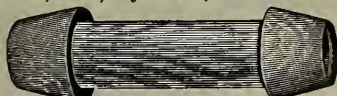
For trimming around flower beds, walks, etc. Regular grade, 35c each. Extra grade, 50c each.

**GOOSE NECK CONNECTION.**

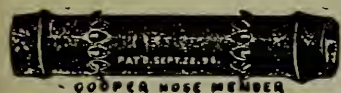
Prevents kink and break of hose near ground connection. Made in  $\frac{1}{2}$ -inch size only. Each, 50c; by mail, 60c.

**Goose Neck Connection.****WOODEN HOSE MENDERS.**

(Look like Cooper's).  $\frac{1}{2}$ -inch and  $\frac{3}{4}$ -inch. Per doz., 15c, by mail, 20c.

**Wooden Hose Mender.****COPPER HOSE MENDER.**

The best "mender" on the market, made of brass, with bars on each end, which prevents hose from slipping out. Will not rust or wear out. Millions in use.  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch, each, 10c, postpaid; dozen, 75c; by mail, 90c.

**IRON HOSE MENDERS.**

$\frac{1}{2}$  and  $\frac{3}{4}$ -inch. 6 for 25c.

**BRASS HOSE COUPLINGS.**

For  $\frac{1}{2}$ -inch and  $\frac{3}{4}$ -inch hose. Per set, 15c; 2 for 25c.

**Brass Hose Couplings.****DONHAM WATER BALLAST LAWN ROLLERS.**

With this new style of Rollers you can have any weight roller the lawn or land needs, according to season and conditions. In the spring, when a light rolling is wanted, you only need to fill the drum partly, while in summer you may fill full.

Small size, diameter 14 inches; length 20 inches, \$11.50.

Middle size, diameter 18 inches, length 24 inches, \$14.50.

Large size, diameter 24 inches, length 32 inches, \$20.50.

**WIRE HANGING BASKETS.**

Ten inches, fancy top, each, 25c; 12 inches, fancy top, each 30c; 14 inches, fancy top, each 35c; 16 inches, fancy top, each 40c.

**SHEET MOSS.** For hanging baskets.  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c.

**SEED TRYERS.**

Made expressly to use in taking samples of seed and grain from sacks. Made of nickel. Small pocket size, \$1.00; by mail, \$1.05; large, 9-inch, for coffee, beans, etc., \$1.50; by mail, \$1.70.

**PATENT HOSE CLAMP.**

$\frac{1}{2}$ -inch, each, 5c; doz., 50c;  $\frac{3}{4}$ -inch, each, 5c; doz., 50c.

**CALDWELL BRASS WIRE STRAPS.**

For  $\frac{1}{2}$ -inch hose, per doz., 15c;  $\frac{3}{4}$ -inch hose, per doz., 15c. Pliers for same, 25c each.

**"SNAP" HOSE COUPLINGS.**

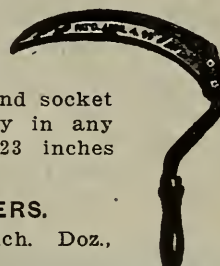
The handiest coupling on the market. Just push down on the spring lever to disconnect hose. Price, 35c; by mail, 40c.

**SYKES HOSE HOLDER.**

Each, 15c; by mail, 25c.

**CHICAGO HOSE HOLDER.**

Fitted with ball and socket joints to send spray in any desired direction. 23 inches high. Price, 80c.

**Chicago Hose Holder.****HOSE WASHERS.**

To fit  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch. Doz., 5c.

**ANTI-CLOG STEEL RAKE** is perfectly self-cleaning and can also be used in the garden by taking out the wire cleaning bar. Price, 75c.

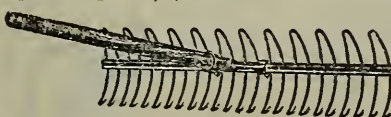
**PATENT GRASS SHEARS.** Made from tempered steel and has a hardwood roller. Price, \$1.50.

**TURF EDGER.** For removing sod from edge of lawn. Price, 75c.

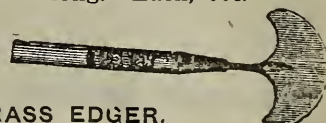
The complete set, to keep your lawn in fine shape special price, \$2.50.

**QUEEN CITY LAWN RAKE.**

Is reversible and can be used for grass or leaves, 24 teeth, 20 $\frac{1}{2}$  in long. Each, 60c.

**GRASS AND TURF EDGER.**

Very useful when working on lawn walks. Price, 65c.

**PLANET JR. GRASS EDGER.**

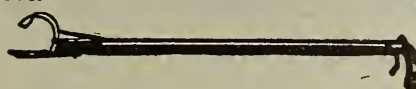
Will do either straight or curved edging. Price, \$6.25.

**PERFECTION DANDELION PULLER.**

Made of best malleable iron. Very light. A sure puller. Price, 40c; by mail, 50c.

**CLIMAX LAWN WEEDER.**

No more backache when weeding with this tool. A simple and easy working device for removing noxious weeds and plants from lawns. Easily operated and does effective work. The full length is 42 inches, enabling the operator to stand erect. Push the chisel under the plant at an angle that will sever the roots. A slight pull on the trigger brings the grab down which securely holds the plant, lifting it out and leaving only a slight mark. Price, 75c. Cannot be mailed.

**TROWBRIDGE GRAFTING WAX.**

This is made of standard formula and is furnished in cakes ready for use.  $\frac{1}{4}$  lb. cake, 15c;  $\frac{1}{2}$  lb. cake, 20c; 1 lb. cake, 35c; 5 lbs. at 25c per lb. Postage, 16c per lb. extra.

**TREE PROTECTORS.**

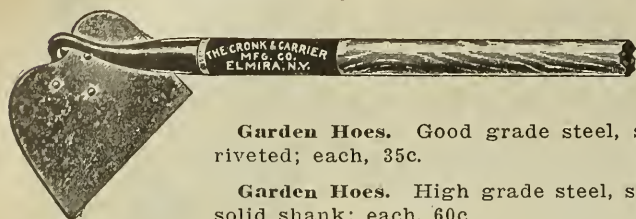
Made of veneer wood. When dampened will blend to fit around the tree. Size 10x18, price, \$1.00 per 100; \$3.00 per 1,000; size 10x22, price, \$1.15 per 100; \$9.00 per 1,000; size 10x24, \$1.25 per 100; \$10.00 per 1,000.



# Implement Department

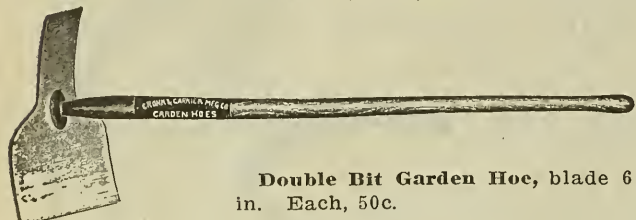
Add 16c a lb. for postage on small tools to be sent by mail, when not priced postpaid.

## GARDEN AND FIELD HOES.

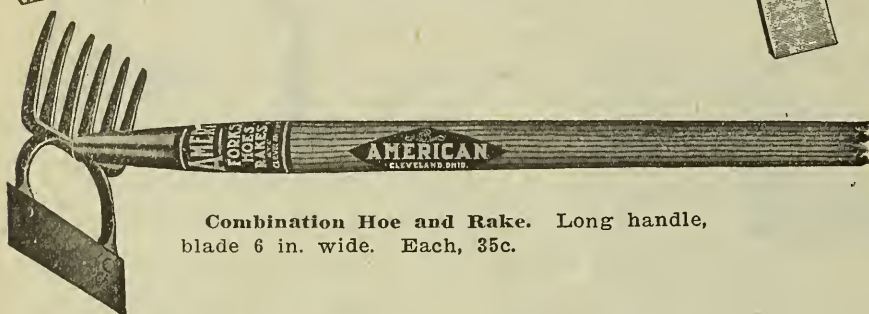


**Garden Hoes.** Good grade steel, socket riveted; each, 35c.

**Garden Hoes.** High grade steel, socket; solid shank; each, 60c.



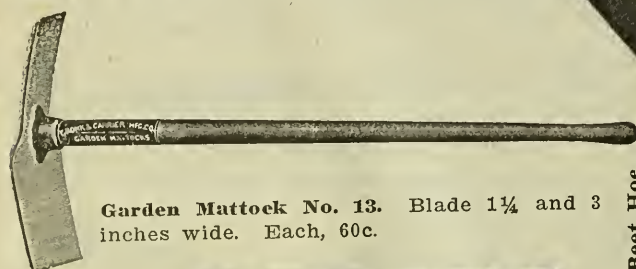
**Double Bit Garden Hoe,** blade  $6\frac{1}{2} \times 2\frac{1}{8}$  in. Each, 50c.



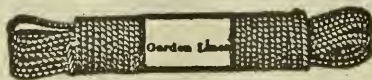
**Combination Hoe and Rake.** Long handle, blade 6 in. wide. Each, 35c.

## SUGAR BEET HOE.

The most popular hand tool in the beet field. Solid shank,  $4\frac{1}{4}$ -inch blade, 8-inch handle. Each, 30c.



**Garden Mattock No. 13.** Blade  $1\frac{1}{4}$  and 3 inches wide. Each, 60c.



## GARDEN LINES.

These are made expressly for this purpose; best braided. 100 feet, 60c; by mail, 70c.

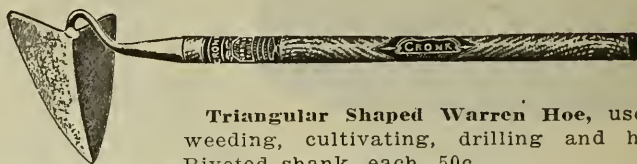
**Reels.** For same, per set, 60c.

**Hough Patent Combined Hoe and Edge Trimmer.** This is a simple, inexpensive tool which may be conveniently used for trimming the edges of the lawn, walks and flower beds, and can also be used for weeding scuffle or as a sod cutter. Price, \$1.00.

**Cleves' Angular Transplanting Trowels.** Small, 5 in., 20c; large, 8 in., 30c each; by mail, 5c extra.



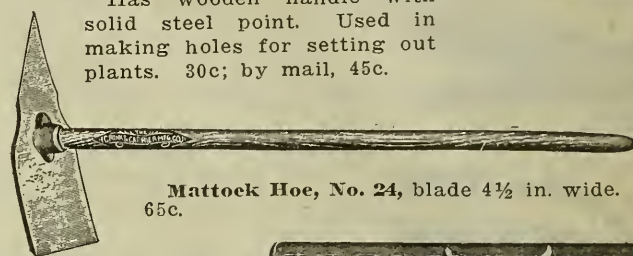
**Strawberry Transplanting Fork.** Price, 20c; by mail, 30c.



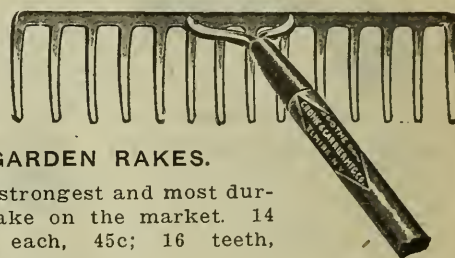
**Triangular Shaped Warren Hoe,** used for weeding, cultivating, drilling and hilling. Riveted shank, each, 50c.

## PLANT DIBBER.

Has wooden handle with solid steel point. Used in making holes for setting out plants. 30c; by mail, 45c.



**Mattock Hoe, No. 24,** blade  $4\frac{1}{2}$  in. wide. Each, 65c.



## GARDEN RAKES.

The strongest and most durable rake on the market. 14 teeth, each, 45c; 16 teeth, each, 50c.

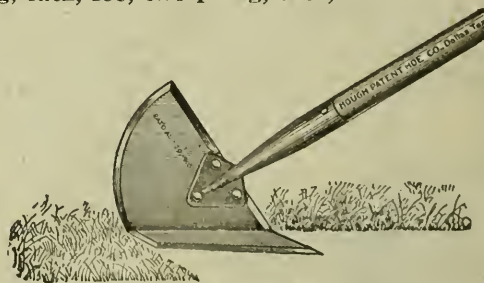
## GARDEN SPADE.

M. C. Pattern, very strong. Each, \$1.00.



## WEEDING HOES.

One-prong, each, 35c; two-prong, each, 40c.



**Hough Hoe and Edge Trimmer.**

## TROWELS.



A good trowel is indispensable. Our No. 3090 is 6 inches long, all steel. Price, 30c; by mail, 35c.

**Barteldes' Florist Trowel.** Made of best steel especially for our trade and bears our name. Shanks extra strong; blade 6 inches long. Price, 40c; by mail, 45c.

**Common Riveted Trowels.** 6-inch, 12c; 7-inch, 15c; 8-inch, 20c; if by mail, 5c extra each.

**"The Denver."** The strongest trowel on the market for the money. 6-in., price, 20c; by mail, 25c.

**Bulb Trowels.** Oval shaped, 6 inches long by  $4\frac{1}{4}$  wide, very good and strong. Price, 60c; by mail, 70c.



**HAZELTINE WEEDER.**

One of the best. Solid steel, good size and durable; in general use over the country. Also used for scraping off old bark on fruit trees. Each, 25c, postpaid.

**LANG'S HAND WEEDER.**

One of the best of this class, allowing use of hand while working. Each, 25c, postpaid.

**HAND WEEDERS.****EXCELSIOR WEEDER.**

A very useful tool for weeding seed beds, stirring the ground, etc. This is one of the most useful tools in working the garden. No one should be without it. Each, 15c; 3 for 40c, postpaid.

**COMBINATION WEEDER.**

Combining as it does both the rake and hoe, it is the most serviceable, durable and perfect weeder on the market. Allows weeding close to the plants, and is offered at about the same price as other weeders. Each, 35c postpaid.

**Combination Weeder.****KNIVES****POCKET BUDDING KNIFE.**

Polished black horn handle with ivory tip. A very useful knife. 75c each, by mail, 80c.

**GRAFTING KNIFE.**

Wooden handle. Each, 30c; by mail, 35c.

**HENCKEL'S GERMAN PRUNING KNIFE.**

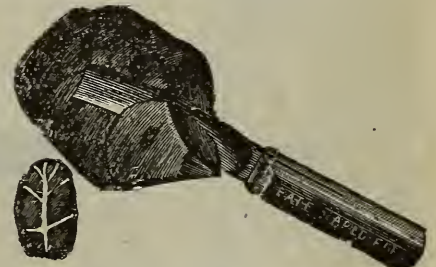
Pocket style, made of best material throughout. Small size, each, 65c; by mail, 70c; medium size, each, 75c; by mail, 80c.

**Asparagus Knife****ASPARAGUS KNIFE.**

Made of best steel. Used also to cut Dandelion from lawns. 40c each; by mail, 50c.

**HUMPHREY'S CONCAVE POTATO KNIFE.**

With the Concave Potato Knife seed potatoes can be cut better, and \$2.00 to \$3.00 an acre saved in seed and time by its use. The eyes cut with the knife, have a compact piece and are surrounded by the greatest amount of tuber. If the same eye had been cut by a straight knife the piece would be thin, flat and broad, liable to dry up and decay before germinating. A circular is put in each box with the knife. Price, postpaid, 30c.

**STATIONARY HANDLE BUDDING KNIFE.**

Plain, 6 in. long. 25c each; by mail, 30c.

**BARTEDES' FLORIST PROPAGATING KNIFE.**

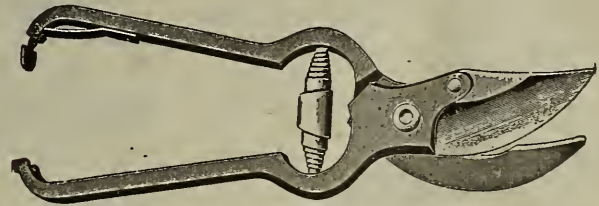
Made of very best steel; it is handy strong, well made and cheap. 75c each; by mail, 80c.

**STATIONARY HANDLE PRUNING KNIFE.**

High grade steel, 7½ inches long. 50c each; by mail, 55c.

**PRUNING SHEARS.****No. 5.**

No. 5 has a flat spring, blade with hooks, forged from tool steel, oil tempered and warranted. Length, 9 inches. Each, \$1.25; by mail, \$1.50.

**No. 27.**

No. 27 has detachable blade of cutlery steel. Notched hook, forged from tool steel and tempered. Length, 9 in. Each, \$1.10; by mail, \$1.30.

**No. 9.**

Cronk's No. 9 has solid blades and handles with heavy coil spring; very strong. Length, 9 in. Each, \$1.00; by mail, \$1.20.

**No. 109.**

Wiss No. 109. Made of the very best steel; very strong. Each, \$2.00; by mail, \$2.25.

**No. 17.**

No. 17 has detachable polished tempered steel blade and is 9 inches in length. Each, 50c; by mail, 70c.

No. 203 Grape Shears. Used for thinning out growing fruits such as grapes, pears, apples, etc. Length, 6¾ inches; made from high grade steel, with volute spring. Price, 50c; by mail, 65c.

Henckle's No. 205. Fine imported shears made of best polished steel; has flat springs and a lock nut. Length, 9 in. Each, \$1.50; by mail, \$1.70.

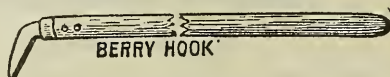


**HEDGE SHEARS.**

Heavy steel, notched blades, 9 in. long. Each, \$1.65.

**LONG HANDLE TREE PRUNERS.****Waters Improved Tree Pruner.**

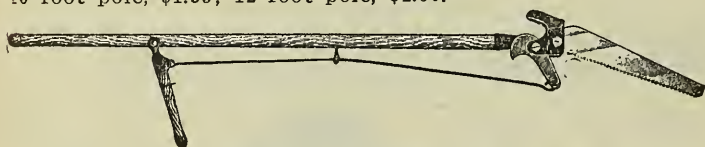
A very popular tool for trimming. Our prices are exceptionally low. 8-foot pole, complete, each, \$1.00; 10-foot pole, complete, each, \$1.15; 12-foot pole, complete, \$1.25. Extra blades, 25c.

**BERRY HOOKS.**

Just what is wanted by berry growers to use when cleaning out old growth. Price, 75c.

**ELMIRA PRUNING HOOK AND SAW.**

Has a detachable saw in addition to the pruning hook. 10-foot pole, \$1.35; 12-foot pole, \$1.50.

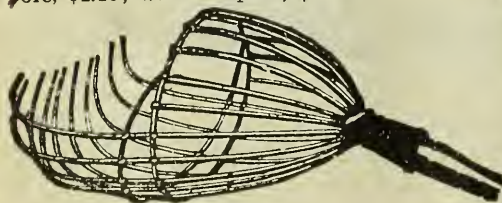
**DOUBLE EDGE PRUNING SAW.**

No. 2. Duplex. 16 inches long. Each, 65c.

**CLIMAX FRUIT PICKER.**

The best arrangement we have ever seen for picking apples and pears. It fastens to a pole and has a long bag. Veteran apple men tell us that it is the best contrivance for careful apple picking ever introduced.

Price, complete with either 8 or 10-ft. pole, \$1.25; without pole, \$1.00.



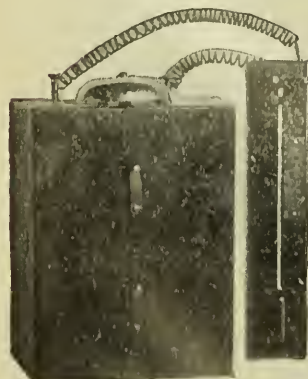
Pennsylvania Fruit Picker.



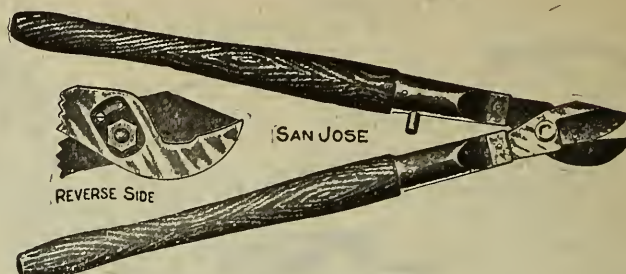
Climax Fruit Picker.

**THE PENNSYLVANIA FRUIT PICKER.**

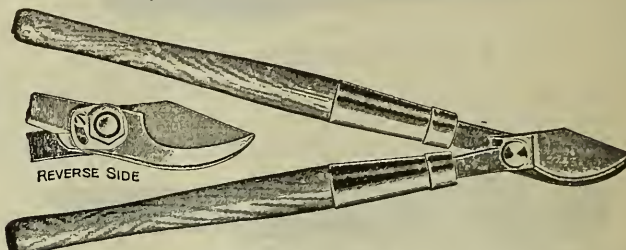
This illustration speaks for itself. Every apple grower should use them. Furnished with or without a pole. Price, with pole, 75c; without pole, 50c.



Cedarborg Frost Alarm.

**SAN JOSE TREE PRUNER.**

Has long handles, seamless steel ferrules and notched hooks. Length, 26 in. Each, \$1.00.

**FRESNO PATTERN TREE PRUNER.**

Forged from high grade tool steel. Finely tempered, has solid wrought steel ferrules and a lock nut. It is 26 inches long. Each, \$1.75.

**"PERFECTION" PRUNING SAW.**

Made of best steel with adjustable blade, so any branch can be easily removed and close to trunk of tree. Can be used as a hand saw or fastened to any size pole. The best saw on the market. Each, \$1.75; extra blade, 25c.

Perfection Pruning Saw With a Short Wooden Handle, each, \$1.75.

**PICKING BAG.**

This bag is adjustable as to size of opening and depth, so the pickers avoid dropping the fruit into a long deep bag and bruising a considerable percentage of it. The bottom opens up to let fruit escape from bag into box or barrel without being bruised. Price, \$1.25.

**IDEAL ORCHARD HEATER.**

**Jumbo.** The vertical depth of the fire bowl is 11 3/4 in., top diameter, 21 1/2 in. It is made of No. 27 black iron and is perfectly rigid. The cover is 22 inches square and made of No. 28 black iron. The stand is made of extra heavy wire, double braced, 12 inches high with galvanized web feet. Capacity, 50 lbs. of coal; burns 8 to 10 hours. Price, 55c each.

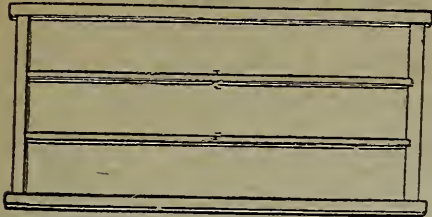
**STANDARD.** Construction and material same as Jumbo. Capacity, 30 to 35 lbs.; burns 6 to 7 hours; price, 45c each.

60 to 100 pots per acre are generally used, according to temperature.

**CEDERBORG FROST ALARM.**

This is a mechanical device of undisputed reliability and accuracy which will notify you when it is time to start your smudge pots, and save your crop, without you having the trouble of staying up at night to watch the thermometer. The vital part of this alarm is an accurate thermometer, fastened outside, and connected with an alarm bell in your bedroom, or any other place in the house. Just as soon as the mercury falls below 33 degrees the bell rings and keeps ringing till you push the switch off. Ask for special circular. Price, \$20.00.





Hot-bed Sash.

**HOT-BED SASH.** Size, 3 feet, 3 in. by 6 feet, for 8 by 10 glass.

Unglazed, each .....\$1.75  
Glazed, each ..... 3.75

They will carry better if unglazed, and advise customers to get glass shipped boxed up; adding price of glass to unglazed sash.

### GREENHOUSE AND HOT-BED GLASS.

8x10, 90 in a case; 10x12, 60 in a case.

Prices, single glass, case.....\$3.75

Prices, double glass, case..... 5.50

Ask for prices on large quantities.

Prices subject to change without notice.

**PUTTY KNIFE.** A very handy tool. 25c each.

**GLAZING PUTTY.** In ten to twenty-five pound bladders at 4c per pound.

### HOT-BED PROTECTING CLOTH.

A waterproof cloth making a grand substitution for glass on hotbeds and cold frames. Protects growing plants in spring and fall from frosts, insects, etc. Promotes hardy and vigorous growth without burning or drawing the plants. No. 00 Medium Heavy Grade, 36 in. wide, is best for use in Colorado. Price per yard, 16c, 20 yards at 15c per yard; 50 to 60 yard roll at 14c per yard. Order early and be ready when wanted. If wanted by mail, add 8c per yard for postage.

### HOT-BED MATS.

Made of Rye Straw. Will not break when wet or dry if bent double. Size, 4 ft. 4 inches by 6 ft. 6 inches, average weight about 21 pounds. Price, each, \$1.25.



**MASTICA.** For glazing greenhouses. Saves much time and expense. Nothing equals it. Gal- lon, \$1.40.

**MASTICA MACHINE.** For applying Mastica \$1.25.

**SCOLLAY'S PUTTY BULBS** (see cut.) For ap- plying liquid putty. \$1.00 each; by mail, \$1.10.

**BLACK DIAMOND GLASS CUTTER.** Each, 20c by mail, 25c.

**VAN REYPER OR PEERLESS GLAZING POINTS.** No rights or lefts. Holds glass firmly No. 1 for small, single thick glass. No. 2 for medi- um double thick glass. No. 2½ for large double thick glass and skylight. 1,000 in a box for 70c by mail, 85c.



### THERMOMETERS.

We carry a large stock of a general assortment for all purposes. Ask for our special circular of Thermometers. These prices do not include postage except where noted. Ordinarily they carry safely by mail; however, we cannot guarantee safe arrival. Large Thermometers should be sent by express only. When wanted by mail, ADD TEN CENTS EACH, 2 for 15c, to cover cost of box, packing and postage.

If interested, ask for our pamphlet on Orchard and high grade Thermometers.

No. 301. 8-inch. Japanned Tin Case. 20c each.

No. 305. 16-inch. Japanned Tin Case with silvered scale. Very reli- able for household use. 60c each.

No. 314. 8-inch. Japanned Tin Case. A strictly high grade instrument that can be depended upon at all times. Tested, our brand on. \$1.00 each.

No. 334. 10-inch. Distance Reading with magnifying tubes. Suitable for hotbed, greenhouse or house. 25c each.

No. 410. 8-inch. Household. Wood back, especially suited for living room. 25c each.

No. 422. 10-inch Household. Wood back; high grade, with nickel plated mountings. A real useful ornament. 60c each.

No. 352. Storm Glass with thermometer and barometer com- bined. An ornament to any porch. 25c each.

No. 720. 10-inch Self-Registering. Indicates each day the extremes of the temperature. Mounted on imitation Box-wood, complete with magnet. \$2.00 each.

No. 724. 10-inch. Self-Registering. Similar instru- ment to No. 720 with boxwood scale, fitted with a pro- tecting hood. Each, \$2.75.

No. 1017. Hot-bed. A glass tube mounted in a wooden tube with brass pointed bottom. Recommended for use where growing mushrooms. Each, \$1.00.

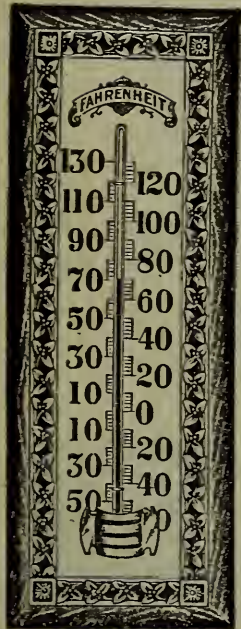
No. 1018. Hot-bed. Similar to No. 1017, but made of better material and carefully tested. None better. Each, \$2.25.

No. 20350. Hot-bed. A carefully tested mercury thermometer, well made and very accurate. Each, \$2.00.

No. 900. 8-inch. All Glass Dairy. For dairymen's use. It floats. Each, 25c.

No. 901. 9-inch. All Glass Dairy. Hand graduated, with tube enlarged at center, 50c each.

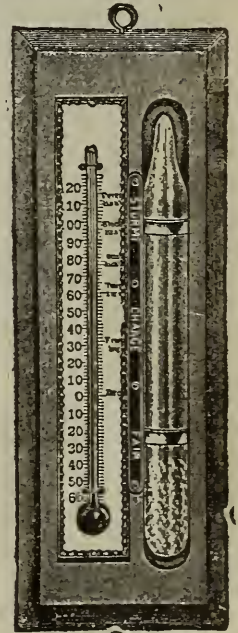
For Incubator and Brooder Thermometers see price list Poultry Supplies.



No. 334.



No. 720.



No. 352.



Mosher Bag Holder.

### GRAIN SCALE TESTERS.

One quart size, price.....\$14.00  
Two quart size, price..... 15.00

### THE MOSHER BAG HOLDER.

Holds firmly bags of various lengths. Weight 25 lbs. Price, \$3.75.

### HUSKING PINS.

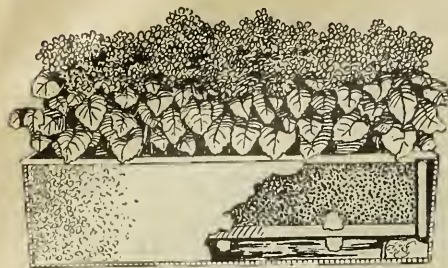
Husking Pins are coming into use more and more every year, as corn is being planted more extensively in our Western country.

Style 7000 Combination Muleskin thumb and finger stall with patent sliding strap adjustment, with a three-compartment pin riveted on a finger stall. Steel washers protect wearing parts on both thumb and finger stall. Price, 25c. Style 200, husking pin only. Price, 15c.

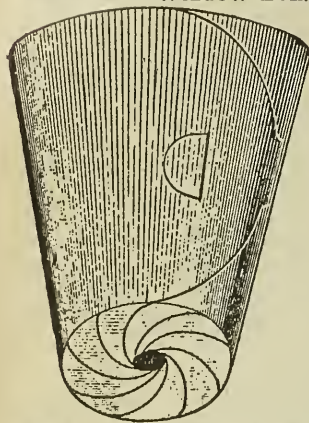


Husking Pins.





Window Box.



Neponset Paper Flower Pot.

## PLANT AND TREE TUBS.

These tubs are made from what is known as Everlasting Cypress. A wood that is durable in resisting decay, yet not exceedingly heavy weight. The manufacturer is proud of the workmanship in finishing them neatly. Are painted green, the castings japanned.

When shipping two or more of a size the feet and bolts are packed inside to facilitate nesting.

**BARTELDES' POT HANGERS.** 2 links, 3 strands, each, postpaid, 10c.

## PRICE LIST—STANDARD POTS.

These prices include packing and delivering to railroad in this city.

Pots.			Saucers.		
Inch	Per doz.	Per 100	Inch	Per doz.	Per 100
2	.15	.90	4	.35	1.57
2½	.20	1.10	5	.50	2.15
3	.30	1.50	6	.60	3.25
4	.45	2.15	7	.70	3.75
5	.60	3.60	8	.80	5.00
6	.75	5.00	9	1.00	6.00
7	1.00	6.00	10	1.25	8.00
8	1.25	8.00			
9	1.50	11.00			
10	2.00	14.00			

**AZALEA POTS.**  
Same Prices as Standard.

## BULB OR FERN PANS.

	Each	Doz.		Each	Doz.
6-inch.....	.10	.80	8-inch.....	.15	1.25
7-inch.....	.15	1.00	10-inch.....	.20	1.75

**EARTHEN HANGING BASKETS,** 9 inches and 10 inches wide, 25c each.

If you want flower pots per 1,000 ask for latest prices.

## MONOGRAM GARDEN CULTIVATOR.

This cultivator is light, weighing 8½ pounds, with one attachment in place. A child or woman can easily operate it. All attachments are made of high grade steel. It can be adjusted to any height of person without removing any bolts and without tools. Price, \$2.00.



Monogram Cultivator.

## FLOWER POTS, SAUCERS AND BOXES

## Self Watering Window and Porch Flower Boxes and Hanging Baskets.

As the name implies, these metal boxes and baskets are provided with a self-watering device which renders attention unnecessary except at intervals of from four to five days. A metal tube in the corner of each box extends from the water reservoir underneath the false bottom upward through the soil to top of box. Inserted in holes in the false bottom are sponges which touch the extreme bottom of reservoir and extend upward through the soil in which the flowers are planted. The water is drawn upward through these sponges in sufficient quantities to maintain a uniform moisture in the soil. These boxes and baskets are made of heavy galvanized iron, neatly painted green, guaranteed not to leak, and provided with eyelets to fasten securely or to hang. On account of our high altitude and dry atmosphere they are provided, especially for our trade, with larger sponges and reservoir than usually furnished.

With each box or basket we will furnish free a booklet containing practical suggestions for window or porch boxes, by Eben E. Rexford.

## Price List of Window Boxes.

No. 1,	8 inches high,	9½ inches wide,	23 inches long,	each.....	\$1.85
No. 4,	8 inches high,	9½ inches wide,	29 inches long,	each.....	2.30
No. 7,	8 inches high,	9½ inches wide,	35 inches long,	each.....	2.80
No. 10,	8 inches high,	9½ inches wide,	41 inches long,	each.....	3.25

## Price List of Porch Boxes.

No. 21,	9 inches high,	12 inches wide,	37 inches long,	each.....	\$3.30
No. 22,	9 inches high,	12 inches wide,	41 inches long,	each.....	3.70
No. 23,	9 inches high,	12 inches wide,	45 inches long,	each.....	4.05
No. 24,	9 inches high,	12 inches wide,	49 inches long,	each.....	4.40

## Price List Window Gardens—Boxes with Stands.

No. 30,	8 inches high,	18 inches wide,	30 inches long,	stand 32 inches high.....	\$6.50
No. 34,	8 inches high,	20 inches wide,	34 inches long,	stand 32 inches high.....	7.50

## Price List Hanging Baskets, including Hooks but no Chain.

No. 8,	6 inches high,	8 inches wide,	square,	each.....	\$1.25
No. 10,	7 inches high,	10 inches wide,	square,	each.....	1.50
No. 12,	8 inches high,	12 inches wide,	square,	each.....	1.75
No. 14,	9 inches high,	14 inches wide,	square,	each.....	2.00

## NEPONSET PAPER FLOWER POTS.

Made of water-proof fabric. Are absolutely unbreakable. The cheapest pot on the market.

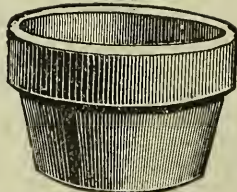
2¼ in. size, 1,000 in crate, weight 15 lbs.; per 100, 40c; per 1,000, \$3.50; 3-in. size, 1,000 in crate, weight 30 lbs.; per 100, 75c; per 1,000, \$6.00; 4-in. size, 500 in crate, weight 26 lbs.; per 100, \$1.25; per 1,000, \$10.00; 5-in. size, 500 in crate, weight 45 lbs.; per 100, \$1.75; per 1,000, \$15.00.

## TUB PRICE LIST.

No.	Outside Top Diameter	Bottom	Depth	Wght.	Price
1	11½	10	11½	6¼	\$1.50
2	13½	10¼	11¼	9	1.75
3	14¾	12½	14	9½	2.00
4	16	13½	15	11	2.50
5	19	16½	18	16	3.50
6	22	20	19½	19¼	5.00

## KRAMER'S POT HANGERS.

The neatest, simplest, most convenient and practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches across. Single set, 15c; four sets for 50c, postpaid.

Hanging Basket  
Bulb Pans.Standard Pot  
with Saucer.

Azalea Pot.

## THE ACME GARDEN PLOW.

It is equipped with moldboard, sweep, reversible taper shovel and rake. The wheel is 20 inches in diameter and the sweep is 8 inches wide. It is a compact and solid garden plow with a land-side, which runs steady and is easy to push. All steel tools are covered with transparent anti-rust lacquer. Handles are bent at ends, not sawed, giving a comfortable grip, and are not disturbed in making adjustments of tools, and these can be adjusted into any desired position. The handles are placed so that the least pressure is required to propel, so making it very light draft. Price, \$3.50.



Acme Garden Plow.



# HAND SEEDERS AND PLANTERS

## THE EUREKA SEED DRILL.

For Kitchen Garden and Hot-Bed Use.



This handy little garden drill is designed only for small plats of ground, hot-beds, etc., and, of course, is not expected to be used for extensive planting, like the large drills. Customers ordering same will please remember this, and that for such a low price a drill of any size could not be offered. However, for the purpose it is intended, it fills the bill all right, and we feel confident our customers will not be disappointed in placing orders for this valuable little drill. You can get close up to the sides of your hot-bed with this drill and save the annoyance of filling in by hand the ends of rows as occurs with other machines. Price, each, \$1.25.

## PREMIER BROADCAST SEED SOWER.

The frame of the machine, which carries all the bearing parts, is made of one piece of metal, thus assuring perfect and permanent alignment. This feature makes the Premier the easiest running machine on the market and prevents it from getting out of order. The seed is fed to the fan wheel through an adjustable slide, in such a manner as to insure even distribution. The slide can be closed instantly. The grain bag is supported by a strap thrown across the shoulders. The Premier will sow any seed that is sown broadcast, such as oats, wheat, rye, barley, flax, millet, clover, timothy, grass seed, etc. Price, \$1.25.

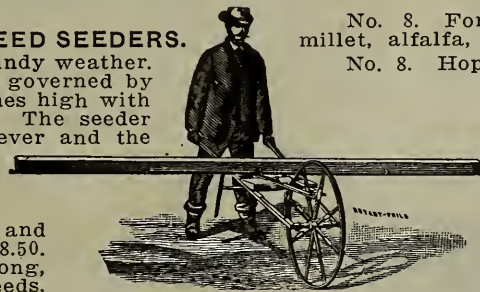


## ROYAL WHEELBARROW CHAIN FEED SEEDERS.

They run easily and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which is made of steel, 32 inches high with a tire 1 1/4 inches wide by 1/4 inch thick. The seeder is instantly thrown out of gear by a lever and the quantity of seed sown is quickly governed by changing the pin in the index plate.

No. 11. Single Hopper Seeder sows all small seeds, like clover, timothy and alfalfa. With hopper, 14 ft. long. Price, \$8.50.

No. 12. Double Hopper Seeder, 14 ft. long, sows all small seeds, and also chaffy seeds, like orchard grass, red top, etc. Price, \$9.00.



## HAND PLANTERS.

For Planting Corn, Beans and Kaffir Corn.

Acme works in any soil; has a flexible and adjustable iron drop. It has an iron seed box and iron channel. The foot is made of polished steel. It is well made, strong, durable, reliable and gives universal satisfaction. Price, \$1.00.

The Acme Rotary. Price, \$2.00.

Improved Rotary. Has rotary drop. Three seed plates with seven chambers each. Works perfectly. When wanted for planting Kaffir corn please mention in order. A disk with special size holes is required. Price,

Acme. Improved Rotary, \$1.25.

Eureka Potato Planter.

Segment One-Hand Corn Planter.

## EUREKA TUBULAR POTATO PLANTER.

A very handy tool with jaws of crucible steel, points polished. Galvanized iron taper conveying tube, natural finish. Handle well braced, smooth and comfortable. Planter finished in black Japan. Height, 36 inches. Price, \$1.25.

## MASTER PLANT SETTER.

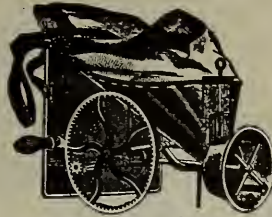
A man with one of these plant setters can plant more than 3 men can set by hand. Don't wait for showers, but keep the planter going every day, regardless of the weather and by using liquid fertilizer instead of pure water you will produce the best stand of plants ever seen. No stooping, no more back-ache. Two barrels of water and a setter will insure a perfect stand of plants, rain or no rain. Price, \$3.75.

## SEGMENT "ONE-HAND" CORN AND BEAN PLANTER.

Never cracks a Kernel nor Skips a Hill.

The seed pocket can be sufficiently enlarged to perfectly adapt it for planting the largest field beans as well as corn. The seed box and hopper are of galvanized iron. All of the working parts are stamped out of sheet steel and are therefore extremely light, strong and accurate. Price, \$1.50.

## CAHOON'S PATENT HAND SEED SOWER.

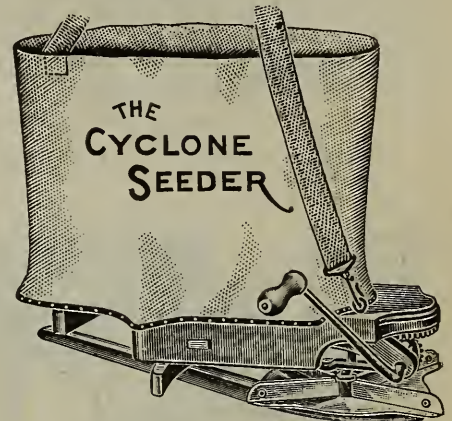


operator, the heaviest greatest distance. Price, \$3.50.

For sowing alfalfa, wheat, oats, barley, rye, buckwheat, grass seeds, etc. The best machine of the kind in the market. The grain is held in a tight sheet-iron hopper surrounded by a bag which will hold a bushel of seed. This is suspended by a strap from the operator's neck, and held in position by a strap around the waist. The seed is thrown from 8 to 20 feet on each side of the seed being, of course, thrown the

## CYCLONE SEEDER.

It has its right side concave in shape and rests nicely against the body just above the hip. The crank shaft being above the distributing wheel brings both hands to nearly a level and gives the operator the easiest position possible. It sows evenly all kinds of grass seed, grains and fertilizers. Clover is thrown a width of 18 ft.; timothy, 15 ft.; alfalfa, 20 ft.; wheat, 25 ft.; oats, 18 ft.; millet, 18 ft. An operator can sow from 40 to 50 acres per day. Price, \$1.50.

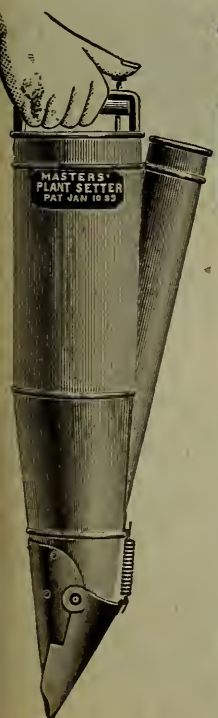
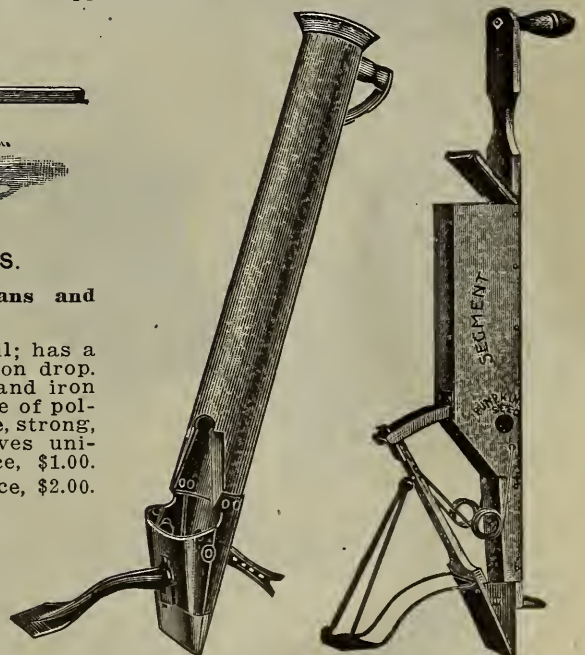


## THOMPSON'S WHEELBARROW GRASS SEEDER.

For All Kinds of Grass Seed.

No. 8. For sowing Brome grass, clover, timothy, millet, alfalfa, etc. Price, complete, \$10.00.

No. 8. Hopper only, \$6.00.



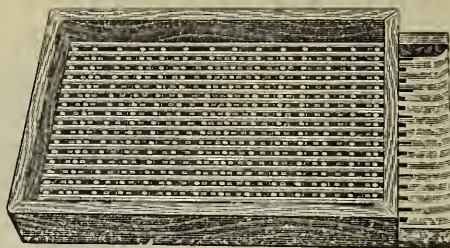
Master Plant Setter.



**PERFECTION SEED CORN GRADER.**

The perfection is admitted by all to be the most simple, practicable, and efficient device ever made for grading seed corn. It is now used by Experiment Stations and thousands of farmers all over the country. It is most **RAPID** and **ACCURATE**, grading perfectly 1 bushel in 4 minutes.

This Double Screen Grader gets four grades of corn just as it comes from the ear. Viz., 1st, the large, odd shaped kernels; 2nd, the even, perfect kernels; 3rd, the small kernels; 4th, the flat kernels that are too thin for seed. Price, \$1.50.

**CIDER MILLS**

Our mills have adjustable crusher, large tubs, slats are firmly riveted and run easily. These mills will produce fully 25 per cent more cider from same quantity of apples than any other style of mills. The mills crush the fruit thoroughly and the press extracts every drop available.

**Three Sizes:**

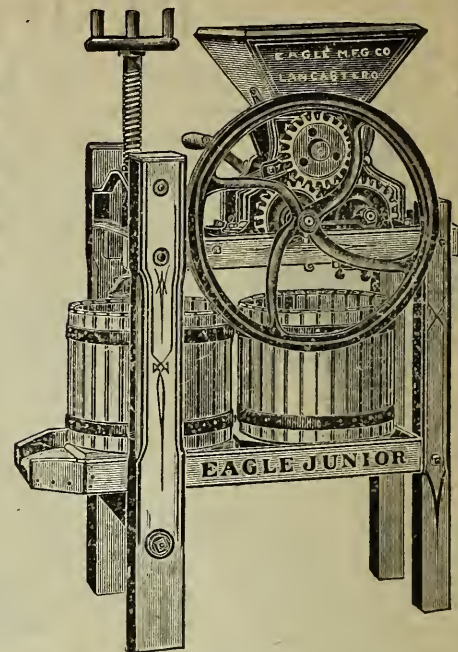
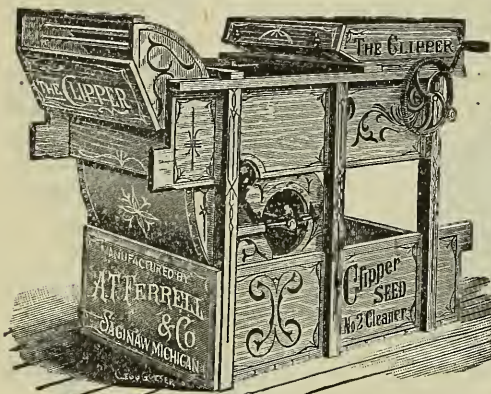
Junior 2 tubs, 1 crank (see cut). Price.....\$15.00  
 Medium, 2 tubs, 1 crank. Price.....21.00  
 Senior, 2 tubs, 2 cranks. Price.....28.00

**THE CLIPPER GRAIN AND SEED CLEANER.**

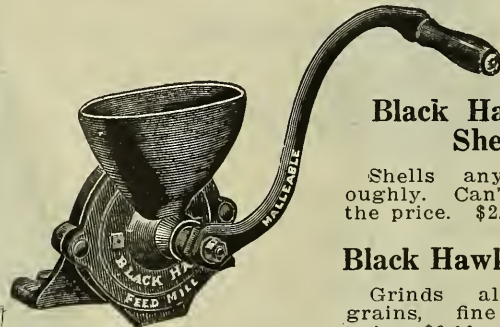
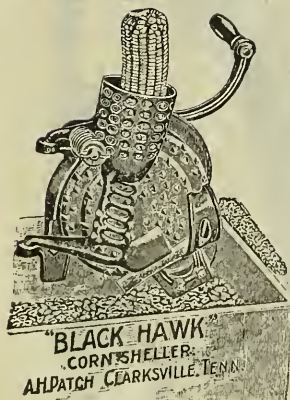
Clean your grain thoroughly before taking it to market with a Clipper. You will save the price of a machine in a very short time. We use several in our warehouse and heartily recommend it. Is adaptable for cleaning all classes of

grain or seeds, such as wheat, corn, oats, barley, rye, beans, peas, buckwheat, millet, clover, alfalfa, timothy, flax, etc., and is suitable for farm or general use. Unlike other mills, the "Clipper" cleans all classes of seed and grain thoroughly in one operation, without any waste, and leaves no tailings to be rehandled. Effectual separation of plantain from clover seed is accomplished, removing all imperfect and foreign seed therefrom, as well as cleaning the perfect seed.

No. 1. Farm size, with 10 screens, complete, \$23.00. No. 2, Warehouse size, \$33.00. For larger sizes ask for special catalogue of Clipper Machines.

**REPAIRS AND EXTRAS FOR CLIPPER GRAIN AND SEED CLEANER.**

Screens for No. 1 Mill, wood frame, each, \$1.35.  
 Screens for No. 2 Mill, wood frame, each, \$1.50.  
 Large cog wheel without crank, each, \$1.25.  
 Small cog wheel for No. 1 or 2 Mill, each, 30c.  
 Handles for crank, 35c; by mail, 40c.  
 Stool for large cog wheel, 50c; by mail, 55c.  
 Fan arm casting, No. 107, 60c.  
 Fan journal casting, No. 109, 70c.

**Black Hawk Corn Sheller**

Shells any size thoroughly. Can't be beat for the price. \$2.50.

**Black Hawk Feed Mill**

Grinds all kinds of grains, fine or coarse. Price, \$3.00.

**Barker Garden Weeder and Mulcher.****Barker's Garden Weeder**

The Barker Garden Weeder and Mulcher operates on the plan of a lawn mower. The rear blade or knife passes beneath the surface of the soil and the revolving blades pass over it, cutting the weeds off, and chopping them up so that they soon dry up and die. It will not work when the weeds are a foot or two high, but it will work successfully in any garden kept the way a garden should be kept. The tool is 8 inches in width and weighs about 15 pounds. Price, \$5.00.

**BANNER ROOT CUTTERS****For Cutting All Kinds of Roots for Stock Feeding.**

No. 15. Hand and Power, same size and capacity as No. 20. Weight, 135 lbs. Price, \$14.00.

No. 16. This machine can be used for hand or power, and it is the only cutter having a balance wheel. It is also supplied with a pulley for belt power, and a crank so it can be used by hand; in fact, it is a small size power cutter, and the best machine for hand and power use. It runs easily by hand. This cutter has the self-feeder and dirt separator.

The Pulley is 12 inches in diameter, with a 3-in. face, and fastens to either end of shaft. It has lugs on bottom of legs so it can be fastened to the floor.

Capacity when run by hand, 30 to 50 bushels per hour. Capacity when run by power, 1 to 3 bushels per minute. Weight, 150 pounds. Price, complete, \$20.00.

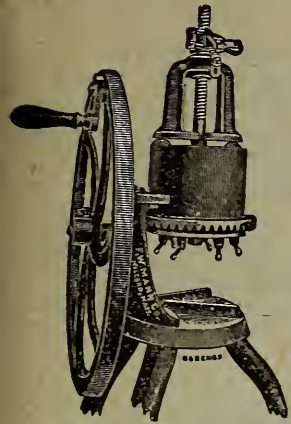
**Banner No. 7—The Poultryman's Friend.** Just the thing to cut beets, turnips, carrots, etc., for all kinds of poultry. The knives are adjustable and made of the very best steel. Two to five minutes will cut enough for a large flock of fowls. Weight, 50 lbs. Price, \$5.00.

**Banner No. 20.**

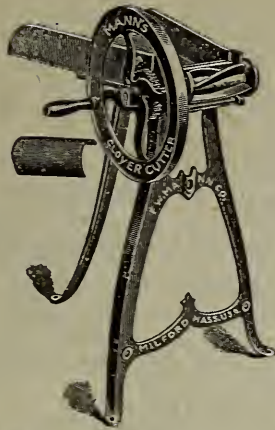
No. 10. Largest Power Cutter; capacity 5 to 7 bushels per minute. Weight, 340 lbs. Price, \$30.00.

No. 20. It is the most rapid cutter ever invented. It cuts everything in the root and vegetable line readily into long, thin, one-half round slices; separates dirt and cut feed; has a self-feeder. Capacity, 30 to 50 bushels per hour. All danger of choking completely obviated by this machine. Weight, 120 lbs. Price, \$12.00.

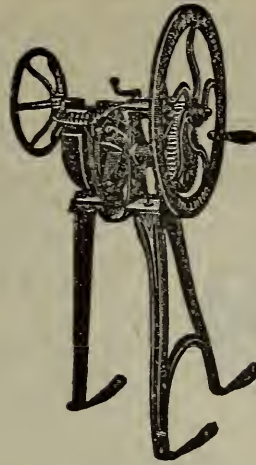




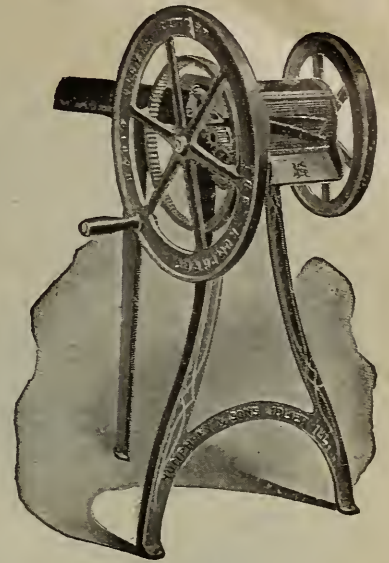
Mann's No. 7.



Mann's Clover Cutter.



Humphrey's Green Bone Cutter.



Humphrey's Clover Cutter.

## MANN'S BONE CUTTERS.

No. 5C. With crank .....	\$ 6.50	No. 7. New model open hinged cylinder.....	\$13.50
No. 5B. With balance wheel.....	9.00	No. 7½. Combination hand and power.....	19.00
No. 5BM. With balance wheel and iron stand.....	11.50		

## MANN'S CLOVER CUTTER.

Made Entirely of Iron and Steel. Cannot Warp or Shrink.

It cuts any kind of hay or clover, either dry or green, very rapidly. Every revolution of the balance wheel produces twelve cuts. Price, complete, \$11.00; without iron legs, can easily be fastened to a stand or to a table, \$9.00.

We can furnish other sizes of Mann's machines to those who wish them. Ask for special catalogue.

## HUMPHREY'S CLOVER CUTTER.

Built by the same people who manufacture the Humphrey Bone Cutter. This is sufficient recommendation to commend it to all. Price, without legs, weighs 85 lbs., \$9.00; with legs, complete, \$11.00.

## THE HUMPHREY GREEN BONE AND VEGETABLE CUTTER.

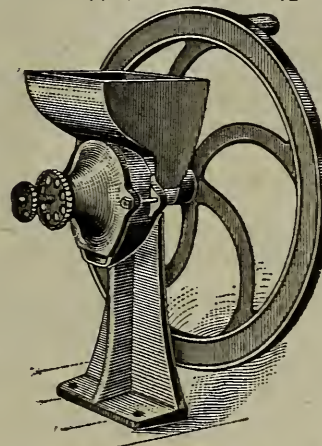
Sold on a positive guarantee to cut more bone in less time and with less labor than any other bone cutter made.

The Humphrey Green Bone and Vegetable Cutter is offered our customers with the assurance that it is the best machine of the kind made today. We recommend it only because we feel that it will give perfect satisfaction. It runs so easily, works so rapidly, that it easily ranks first of all bone cutters. We do not feel that we are called upon to point out the advantages of green cut bone, or to dwell upon its value. That is conceded by every poultryman. In the "Humphrey" they will find the machine they have been looking for. It works to perfection. It will pay for itself in a few months' time, at any season of the year. It cuts any bone; also roots, etc.

No. 1 weighs 120 lbs., hand power only, \$13.00. No. 2 power only, \$14.50; No. 2½ weighs 135 lbs., hand and power, \$16.00.

## THE HUMPHREY GRIT CRUSHER.

Hens must be supplied with some form of grit, and there are few places in our country where you do not find glistening granite boulders, flint or hard rock, which can be readily reduced into a satisfactory grit. The Humphrey Grit Crusher is a circular mortar, 9 inches in diameter and 11 inches high, with a removable perforated bottom. With one of them you can break enough grit in half an hour to last your fowls several weeks, and the material costs you nothing. Price, \$4.00. Weighs 40 lbs.



No. 32 HAND GRINDING MILL.

This machine grinds fine or coarse, oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish; has a 16-inch fly wheel and is light running.

The capacity of this mill is not equalled by any other of the same size. Price, \$5.00.

Shipping weight, 40 pounds. Capacity, 1 or 2 bushels per hour.

We handle a full line of Humphrey Bone Cutters.

Ask for Catalog.

## PLANET JR. GARDEN AND FARM TOOLS



Planet Jr. No. 1.

## No. 1 Combined Drill Seeder, Wheel Hoe, Cultivator and Plow.

This has long been the most popular combined tool made. As a seed sower, it is the same as No. 2 Drill Seeder, but smaller, holding 3 pints. From a drill it is changed to its other uses by removing 2 bolts, when hoes, etc., can be attached. It is an excellent seed sower, a first-class wheel hoe, an excellent furrower, an admirable wheel cultivator, and a rapid and efficient garden plow. Weighs 44 pounds.

Price, with tools as shown, \$9.50; with pair rakes, \$10.50.

## No. 2 DRILL SEEDER.

Similar to No. 1 Combined, except the seed hopper is larger, holding three quarts, and machine has no cultivator attachments. Weighs 38 lbs. Price, \$7.50.



Planet Jr. No. 3.



## PLANET JR. GARDEN AND FARM TOOLS—Continued.

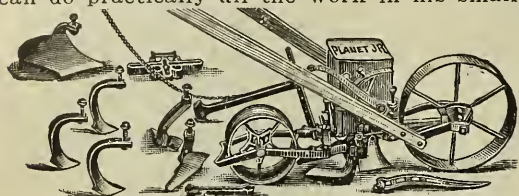
## No. 3 HILL AND DRILL SEEDER.

It sows evenly in drills, and also drops in hills, at 4, 6, 8, 12 and 24 inches apart. It is thrown out of gear instantly by moving a convenient lever; or the flow of seeds is stopped by pushing down the feed rod. No time is lost; no seed is wasted. It is quickly set to sow different kinds of seed in the exact thickness desired. It covers and rolls down light or heavy, and marks the next row clearly. Holds three quarts. Weighs 46 lbs. **Price, \$10.50.**

## NO. 4 IMPROVED COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW.

This admirable tool combines in a single convenient implement a grand hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. It holds two quarts, and as a seeder is like the No. 3, sowing in continuous rows, or dropping in hills at five different distances.

It is useful almost every day of the season, at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crop. Weighs 47 lbs. **Price, with tools as shown, \$11.00; with rake, \$12.00.**



Planet Jr. No. 4.

**No. 4, Plain Drill only, no attachments** (parts cannot be added except at extra expense.) Weighs 38 lbs. **Price, \$9.00.**

When ordering be careful to designate whether "Combined" or "Plain."

## NO. 5 HILL AND DRILL SEEDER.

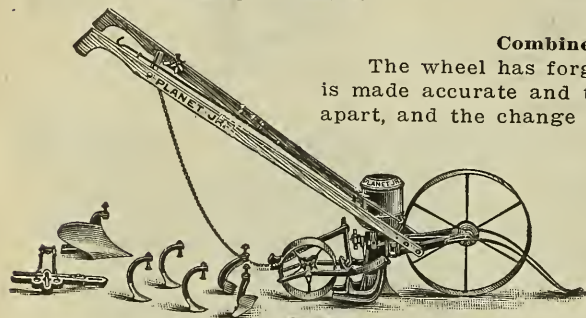
It is quite identical with No. 3, except its large hopper, capacity 5 quarts, and has drive wheel 16½ inches in diameter. The machine is built slightly heavier, weighing 51 lbs. **Price, \$13.00.**

## NO. 6 PLANET JR.

## Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow.

The wheel has forged steel spokes, is 16½ inches high, and is most substantial. The feed is made accurate and the hill dropping device is made of steel. It drops 4, 6, 8, 12 and 24 inches apart, and the change from drill to hill, and vice versa, can be made in a few seconds.

The wheel can be changed to five different distances and it takes less than a minute to make the change. The index is a new design, easily adjusted by means of an accurate thumb-screw. The cut-off is within easy reach of the thumb and fore-finger of the right hand. The opening plow is narrower than on other drills and the covers have sufficient opportunity to swing to adjust themselves to all inequalities of the ground. The roller is wide and hollow-faced and has a scraper on its rear to return at once, to their proper place, the seeds and wet soil adhering to it. The handles adjust to a man's or boy's height. Weight, packed, 58 lbs. **Price of the machine, complete, \$13.50.**



Planet Jr. No. 6.

This machine can also be furnished as a hill and drill seeder plain. Weight, 50 lbs. **Price, \$11.00.**

**No. 36.** The same machine, rigged as a single wheel hoe, cultivator and plow, only. Weight, 33 lbs. **Price, \$6.25.**

## NO. 21 COMBINED HILL AND DRILL SEEDER AND FERTILIZER DRILL.

This Seeder, in addition to planting all kinds of garden seeds in rows, or in hills, 4, 6, 8, 12 or 24 inches apart, will also sow the fertilizer at the same passage. The seed hopper holds 2 quarts; the fertilizer hopper, 4 quarts. **Price, \$19.00.**

## NO. 25 COMBINED HILL AND DRILL SEEDER AND DOUBLE WHEEL HOE, PLOW, ETC.

This tool combines the most practical features of the No. 4 Drill and No. 12 Double Wheel Hoe.

As a Drill it is almost identical with the "Planet Jr." No. 4 Drill; will sow in drills and hills, 4, 6, 8, 12 or 24 inches apart, and has the same automatic device for throwing out of gear, and the new combined cut-off and seed index with thumb screw adjustment. It is thoroughly substantial and accurate in sowing all kinds of garden seeds in either hills or in drills.

As a Wheel Hoe it is identical with the "Planet Jr." No. 12 Double Wheel Hoe, the very best machine on the market. The change from Drill to Wheel Hoe takes but a moment, and entire combination is one we can heartily recommend and guarantee satisfactory. Weighs 59 lbs. **Price, \$13.50.**

## NO. 12 DOUBLE WHEEL HOE, CULTIVATOR AND PLOW.

The number of different kinds of work done by this one tool is marvelous, and all are done in the most perfect manner. The teeth are changed with the greatest ease and quickness, without taking the nuts from the standards. The wheels may be set at four different distances apart; the frame at three heights. The handles are adjustable in height to suit man or boy. For rapid and perfect work it's the most money-making tool a farmer can own. Weighs 32 lbs. **Price, with tools as shown, \$7.00.**

**No. 11** is the No. 12 with addition of Rakes and extra pair short Scuffle Hoes. Weighs 37 lbs. **Price, \$9.00.**

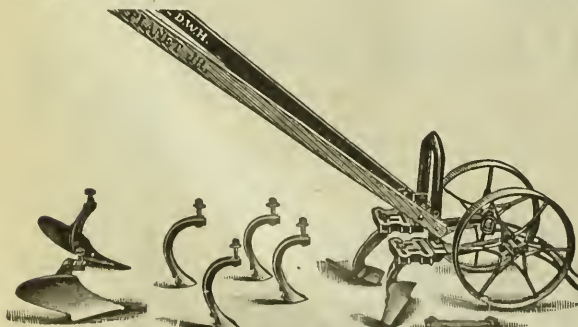
## NO. 13 DOUBLE WHEEL HOE.

A high arch with only a pair of 6-in. hoes—the most useful tool of any. Unquestionably an onion grower gets more services from this low priced tool, for the amount invested, than of any tool we can offer. Double Wheel Cultivators are economical of time by working astride the row. Weighs 28 lbs. **Price, \$4.75.**

## SINGLE WHEEL HOE, CULTIVATOR AND PLOW.

These tools have all the latest improvements offered in "Planet Jr." goods. The handles are adjustable in height. The wheel can readily be changed in height and from one side to the other of frame. The cultivator teeth, hoes, plow, etc., are of high carbon steel, finely finished and "work to a charm."

**No. 16** has a leaf guard, one 7-in., one 4-in. rake, three cultivator teeth, two scuffle hoes and one plow. Weighs 29 lbs. **Price, \$5.85.**

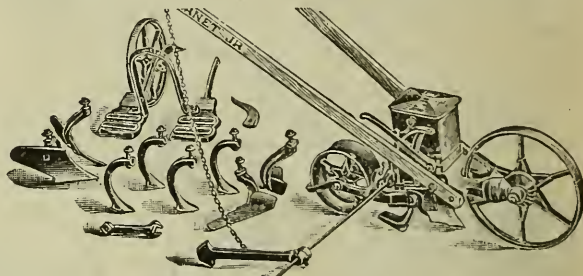


No. 12 Double Wheel Hoe.

**No. 17** has one pair scuffle hoes, 3 cultivator teeth and one plow. Weighs 26 lbs. **Price, \$5.00.**

**No. 17½.** Same as No. 17, except have omitted the plow and added a leaf guard, making it an excellent tool for onion and sugar beet cultivating. Weighs 22 lbs. **Price, \$4.50.**

**No. 18.** This tool has the same frame and handles as No. 17, but has one pair of 6-in. hoes only—the tools that are most constantly useful throughout the season. All the other tools can be added as needed. Weighs 20 lbs. **Price, \$3.50.**



Planet Jr. No. 25.



No. 16 Single Wheel Hoe.



## PLANET JR. GARDEN AND FARM TOOLS—Continued.

## FARMER'S NO. 19 WHEEL HOE.

The wheel is high and is made with stiff steel rim and spokes, and a combination steel and malleable iron hub. The wheel arms are steel and the frame of the tool is attached adjustably to the wheel arms, so that the height of the handles may be readily changed to suit man or boy. The standard is slotted to make regulation of depth easy, and by means of an adjustable malleable filling piece, the same standard is made to carry all the steels that come with the machine. The parts furnished with this tool are: A large Garden Plow, one 10-in. Sweep, one 6-in. Sweep, one 4-in. Cultivator Tooth, one 2-in. Cultivator Tooth. Weighs only 22 lbs. Price, \$3.75.

## NO. 38 SINGLE WHEEL DISC HOE, CULTIVATOR AND PLOW.

With tools as shown in illustration. Weight, 29 lbs. Price, \$7.00.

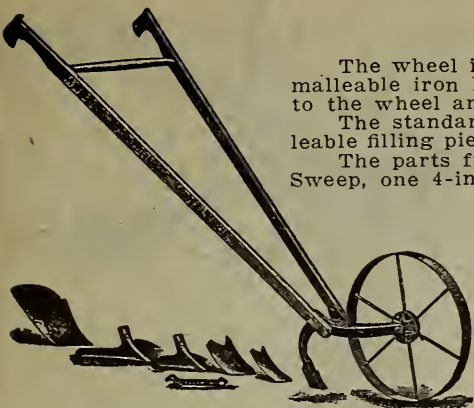
No. 18½. Same style as No. 38, less cultivator teeth and plow. Weighs 23 lbs. Price, \$4.75.

## THE FIRE-FLY GARDEN PLOW.

This tool is the most useful in small gardens, opening furrows for manure or seed, and covering them quickly. When irrigating especially useful in making the lateral ditches. Chicken raisers find it very useful in plowing up the scratching yards. The mold board is of tempered and polished steel; the depth is quickly changed. Weighs 13 lbs. Price, \$2.35.



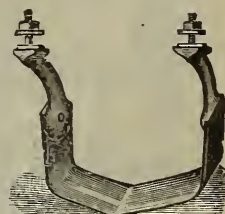
No. 38 Single Wheel Disc Hoe, Cultivator and Plow.



Farmer's No. 19 Wheel Hoe.

## EXTRAS AND PARTS FOR PLANET JR. HAND TOOLS.

Double Moldboard Plow, fits Single Wheel Hoes, also No. 1 and No. 4 Combined Drills.....	\$1.25
Double Moldboard Plow, with connecting bar fitting all Double Wheel Hoes .....	1.50
Onion Harvester and Path Cleaner, 8-in. at 75c; 12-in.....	1.00
Scuffle Hoes, fit any of the hand tools. For right-hand styles order "D-1," for left order "C," each.....	.50
Scuffle Hoes, blades only. Above sizes and styles, each.....	.25
Rakes for Combined No. 1 Drill, per pair.....	1.00
Rakes for Combined No. 4 Drill, per set of three.....	1.00
Rakes for Single Wheel Hoes, one 7-in., one 4-in., per pair.....	1.00



Onion Harvester.

Plow for Combined Drills, and also Single Wheel Cultivators. Each .....	\$1.25
Wrenches, each .....	.15
Plows for Double Wheel Hoes, etc. Per pair.....	1.15

Handles, wooden, for Drills and Wheel Hoes. Per pair, ..	.75
Cultivators, complete for hand tools. Each.....	.35
Leaf Guards for Single or Double Wheel Hoes. Each....	.25

For other parts and extras write us, and if possible designate by "number" stamped on part wanted.

## THE PLANET JR. NO. 8 HORSE HOE AND CULTIVATOR.

Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle.

The Frame is long and high, making a tool that will not clog easily.

The Standards are formed up hollow with round throats of stiff steel; they polish quickly and free themselves readily from obstructions; they clasp the frame and strengthen it.

The Depth is under perfect control by means of a new lever wheel and the new patented depth regulator, which are moved instantly in unison by a single lever, making exact work, steadying the machine and relieving the operator.

The Expander. This is an entirely new pattern, superior to all other forms; exceedingly strong, simple, accurate and positive in all positions.

The Reversible Side Hoes, patented, are an important part of the implement. They act as plows or hillers, or as a horse hoe, working so close that an immense amount of hand labor is avoided. Every part is perfected to make the tool acceptable to the farmer, who knows the best is the cheapest. Weighs 82 lbs. Price, \$9.00.

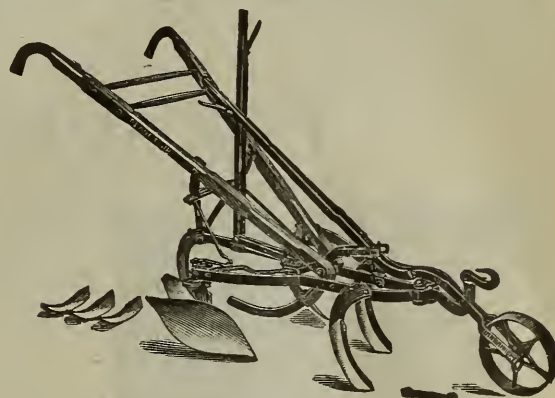
No. 7. Same as illustrated, except no depth regulator. Weighs 77 lbs. Price, \$8.50.

No. 9. Same tool without depth regulator, and a plain wheel instead of lever wheel. Weighs 72 lbs. Price, \$7.75.

No. 9 Plain Cultivator. Fitted with five cultivator teeth only. With lever spreader and plain wheel. Weighs 64 lbs. Price, \$7.25.

No. 4 Plain Cultivator. Has plain cultivator teeth only, with a stirrup clamp instead of lever spreader and plain wheel. Weighs 57 lbs. Price, \$5.25. No wheel, weighs 49 lbs. Price, \$4.50.

No. 5 Horse Hoe and Cultivator has a lever spreader, but no depth regulator and side braces. Has plain wheel. Weighs 69 lbs. Price, \$7.75.



Horse Hoe No. 8.

## PLANET JR. DOUBLE AND SINGLE CELERY HILLERS.

CELERY HILLERS are now considered indispensable in celery growing. The leaf lifters are adjustable in height, and are especially valuable for first workings. With them some of our best and largest growers hill their celery without any handing. We equip both with lever expanders and leaf lifters. The double hiller only is fitted with lever wheels. The hilling blades are 43 inches long, adjustable in width or height as wanted, the double machine works all rows up to 4 feet apart. The single works all widths, and where market gardeners plant close and first bleach every other row, it is "just the thing." It is also excellent help for burying the crop. Before hilling, the soil should be thoroughly loosened with a horse hoe.

Price, double, \$16.00; weighs 88 lbs. Price, single, \$13.00; weighs 68 lbs.

## "PLANET JR." HILLING ATTACHMENT.

This special Hilling Attachment fits any of our Planet Jr. Horse Hoes, and is very effective. Sold either complete, or as an attachment to regular Planet Jr. Horse Hoe.

Price, complete with Horse Hoe, \$9.50. Attachment alone, \$4.00.

## "PLANET JR." POTATO DIGGER.

It works well either in green vines or ripe, and does excellent work even when the crop has become very weedy. The tines on the mold board tear the furrow apart and the digging tines complete the work, leaving the potatoes spread on the surface. It is entirely unnecessary to leave every other row with this machine; all can be dug successively. Price, \$18.00; weight, 123 lbs.



Double Celery Hiller.







## Prices of Hives for Comb Honey

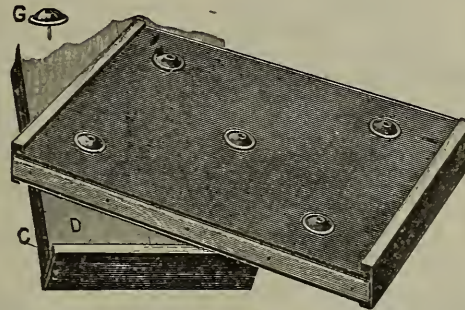
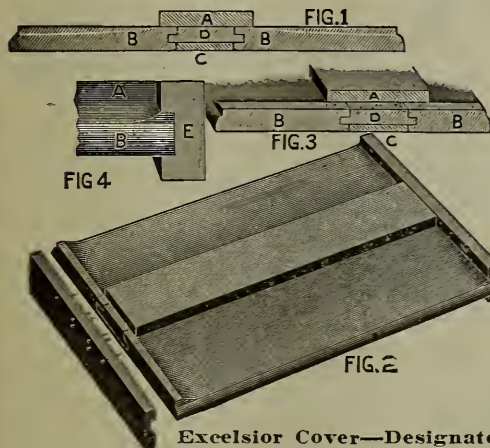
The one-story Dovetailed hive includes a cover, bottom and brood chamber, with frames, division board and nails. Any style of super or upper story may be used on this hive.  
The one-and-one-half-story hive includes a cover, bottom, brood-chamber, complete, and one super with inside fixtures.  
The two-story hive includes the same with one more super. Furnished in either eight or ten frame size.

	Designating Letters and Numbers for 8 and 10 frame	Nailed and Painted each	In Flat		
			1 Hive	5 Hives	Weight of 5
1-story Dov'd hive, no super or upper story, with frames and division board, no foundation starters.....	AE5-8	\$2.10	\$1.55	\$7.25	100
	AE5-10	2.20	1.65	7.75	108
1½-story Dov'd hive for comb honey in 4¼x4¼x1½ beeway sections, without section or foundation starters.....	AE52S-8	2.80	2.10	9.75	135
	AE52S-10	2.90	2.20	10.25	145
2-story Dov'd hive for comb honey in 4¼x4¼x1½ beeway sections, without section or foundation starters.....	AE522S-8	3.50	2.65	12.50	170
	AE522S-10	3.60	2.75	13.00	182
1½-story Dov'd hive for comb honey in 4¼x4¼x1½ plain sections, without section or foundation starters.....	AE52P-8	2.80	2.10	9.75	130
	AE52P-10	2.90	2.20	10.25	140
2-story Dov'd hive, for comb honey in 4¼x4¼x1½ plain sections, without section or foundation starters.....	AE522P-8	3.50	2.65	12.50	165
	AE522P-10	3.60	2.75	13.00	177
1-story Danzenbaker hives, used as brood hives, without foundation	AED5-10	2.20	1.65	7.75	100
1½-story Danzenbaker hives, without sections or foundation starters	AED52M-10	3.10	2.45	11.75	150

## 2-Story Dovetailed Hives for Extracted Honey in L. Frames

This two-story hive includes a cover, bottom, and two bodies which make a brood-chamber and upper story, each fitted with frames and inside fixtures.  
Each hive is furnished in either eight or ten frame size.

	Designating Letters and Number for 8 and 10 Frame	Nailed and Painted Each	In Flat		
			1-Hive	5 Hives	Weight of 5
2-story Dov'd hive for extracted honey in L. frames (9½) in full-depth upper story; no foundation starters.....	AE55-8	\$3.25	\$2.50	\$12.00	160
	AE55-10	3.40	2.65	12.75	175



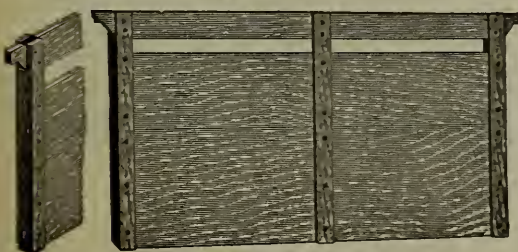
Excelsior Cover—Designated as E.

Double Air-Spaced Cover—Designated as F..

Metal Roofed Cover—Designated as R.

## Prices of Hive Parts

Name and Style.	Nailed and Painted Each	K. D. in Flat			Weight of 10
		Each	5	10	
Supers with section holders, etc., for 8-frame dovetail hives.....	\$ .75	\$ .60	\$2.75	\$5.40	70 lbs.
Supers with section holders, etc., for 10-frame hives.....	.80	.65	3.00	5.80	75 lbs.
Supers with flat tins only for 8-frame dovetail hives.....	.55	.40	1.75	3.40	40 lbs.
Supers with flat tins only for 10-frame dovetail hives.....	.55	.40	1.75	3.40	42 lbs.
Danzenbaker supers taking 4x5x1½ Plain Sections, include hanger-cleats, end stops, section holders, M fences and springs.....	.90	.75	3.65	7.20	80 lbs.
For 8-frame dovetailed hives.....	.95	.80	4.00	7.90	90 lbs.
For 10-frame dovetailed hives, or Danz. hives.....	.80	.60	2.85	5.50	80 lbs.
Bodies, with tin rabbets only, 8-frame.....	.85	.65	3.10	6.00	85 lbs.
Bodies, with tin rabbets only, 10-frame.....	.55	.40	1.85	3.50	47 lbs.
E or Higginsville covers, complete for 8-frame hives.....	.60	.45	2.10	4.00	55 lbs.
E or Higginsville covers, complete for 10-frame hives.....	.55	.40	1.85	3.50	47 lbs.
F or double air-spaced covers, 8-frame hives.....	.60	.45	2.10	4.00	55 lbs.
F or double air-spaced covers, 10-frame hives.....	.55	.40	1.85	3.50	47 lbs.
R or metal-roofed double covers, 8-frame hives, without super cover....	.60	.45	2.10	4.00	55 lbs.
R or metal-roofed double covers, 10-frame hives, without super cover....	.75	.60	2.65	5.20	58 lbs.
Ex or Colorado covers, 8-frame hives, same as E with addition of 2 side cleats and super covers.....	.80	.65	2.75	5.40	64 lbs.
Ex or Colorado covers, 10-frame hives.....	.45	.30	1.25	2.40	50 lbs.
Super Covers, 8 or 10 frame.....	.50	.35	1.50	2.90	54 lbs.
A and B bottoms, complete, 8-frame hives.....					
A and B bottoms, complete, 10-frame hives.....					



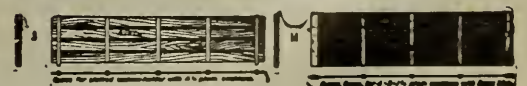
Division Boards.

Plain Division Boards, nailed.  
Each, 12c; 5 for 50c; 10 for 95c.

Plain Division Boards, K. D., not nailed. 10 for 75c.

Sawed Wood Separators, slotted, 18½x4½ in., 100 for \$1.00; 500 for \$4.75.

P-Fences or Cleated Separators for 4¼ plain section, in plain section holders. 100 for \$1.90.

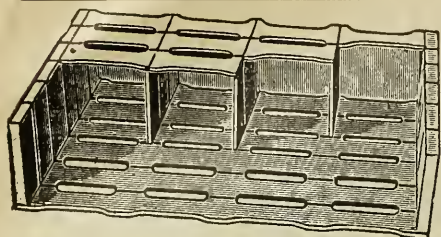


S & M Fences.

S-Fences or Cleated Separators, used with 4¼ plain sections in slotted section holders. 100 for \$1.90.

M-Fences or Cleated Separators, used in Danz. super, with 4x5x1½ plain sections. 100 for \$2.00.



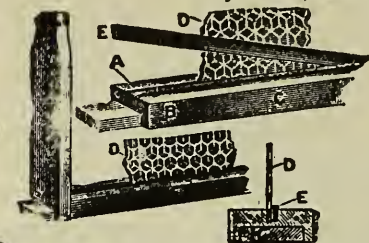


## SECTION HOLDERS.

Section Holder Slats,  $\frac{1}{4}$  in. thick,  $18\frac{1}{2} \times 1\frac{1}{2}$  in. wide, 10 for 15c; 100 for \$1.15; 500 for \$5.50.  
 Section Holder Slats,  $\frac{3}{8}$  in. thick,  $18\frac{1}{2} \times 1\frac{1}{2}$  in. wide, 10 for 20c; 100 for \$1.20; 500 for \$5.65.  
 Section Holders, slotted,  $18\frac{1}{2} \times 1\frac{1}{2}$  in. wide, 10 for 25c; 100 for \$2.25; 500 for \$11.00.  
 Danzenbaker Section Holders, 10 for 30c; 100 for 2.40; 500 for \$11.50.

## Brood and Honey Extracting Frames

If by mail, add 5c each. C



Manner of fastening foundation in latest improved Hoffman frame with the little wedge.

## HOFFMAN FRAMES.

Furnished Staple End Spacing Unless Ordered Otherwise.

This is a fixed frame that is now used universally in the United States, and has become very popular. The ease with which it is manipulated is very satisfactory. The end bars are enlarged toward the top. They are  $\frac{3}{8}$ -in. thick; 1-in. wide at the narrowest part and  $1\frac{3}{8}$ -in. at the widest. This is the style in our Dovetailed Hives, unless ordered otherwise. The peculiar merit of this frame is that it can be handled in lots of two, three or four, all at one time, and the same can be returned to the hive at one operation.

## DANZENBAKER CLOSED-END FRAMES.

Ten for 35c; 100 for \$2.90.

This we consider the best of any of the closed-end type of frames ever sold. As it is supported by pivots in each end of the end-bars it is reversible. A comb put in a hive upside down for a day or two during the honey-flow will have the space between the bottom bar (now at the top) and the comb entirely closed up. This secures solid cards of combs without any pop-holes, or space, between the frame proper and the comb itself.

## SHALLOW EXTRACTING FRAMES.

The top-bar is  $\frac{7}{8}$ -inch wide and  $\frac{3}{8}$ -inch thick with single groove; no comb-guide.

Bottom bar is  $\frac{3}{4}$  wide and  $\frac{1}{4}$  thick; the end-bars are Hoffman self-spacing style,  $\frac{3}{8}$  thick by  $5\frac{1}{2}$  long, end-spaced with staple same as full-depth Hoffman frames. 10 for 30c; 100 for \$2.40.

## Basswood One Piece Polished Sections

Made in two styles: Open top and bottom, and plain or no bee-way. Average weight of 1,000 sections is seventy pounds.

## FIRST QUALITY BASSWOOD SECTIONS—No. 1.

These are to be perfect white sections, all of those with weather stains or black spots on them being culled out. Indeed, they are "snow white." If you intend to market your honey in the large cities, it will pay you to use the No. 1 white sections.

Unquestionably our sections this year are second to none. We will be very pleased to mail samples on application.

## SECOND QUALITY SECTIONS—No. 2.

Second quality sections are those that we do not like to put in the first quality. Understand, they are perfect sections as far as workmanship is concerned, but they have dark streaks or spots on them; or, in other words, they are what are left after the first qualities have been selected out. If you are producing honey for your own use, these will answer all the purposes of a first quality section.

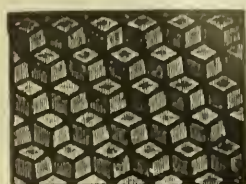
Several of our very successful apiarists in Colorado are using these sections.

## Price List of Sections.

	No. 1.	No. 2.
Regular size, $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ .		
Per 100	\$ .90	\$ .85
Per 250	1.70	1.60
Per 500	2.80	2.60
Per 1000	5.50	5.00
Per 5,000, at 1000	5.00	4.50
Plain sections, $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ , No. 1 only	25c less per 1,000	
Plain sections, $4 \times 5 \times 1\frac{1}{2}$ , No. 1 only	25c less per 1,000	

Ask for special prices on large quantities.

## Weed Process Comb Foundation



Medium Brood.

Quantity	Medium Brood. $5\frac{1}{2}$ to 6 sq. feet per lb.	Thin. 10 to 11 sq. feet per lb.	Extra Thin. 12 to 13 sq. feet per lb.
1, 2, 5 lb. boxes, per lb.	58c	65c	70c
10 lb. boxes, per lb.	55c	62c	65c
25 lbs. boxes, per lb.	55c	62c	65c

Write for prices on large quantities. One lb. of comb foundation by mail, 25c extra to above prices for packing and postage.

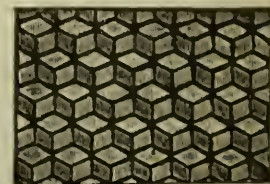
## QUEEN BEES.



We can furnish Queen Bees from May 15th until September 15th.

Imported Italian Tested Queen from \$3.00 to \$5.00 each.

Home Bred Italian Tested Queen, \$2.50 each.  
 Home Bred Italian Untested Queen, \$1.25 each.  
 Southern Bred Italian Tested Queen, \$1.75 each.  
 Southern Bred Italian Untested Queen, \$1.00 each.

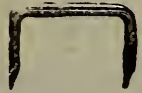


Thin Foundation.



## Tin and Wire Parts, Hammers and Paint

**T Tins** for 8-frame hive supers, \$1.15 per 100.  
**T Tins** for 10-frame hive supers, \$1.35 per 100.  
**Flat Tins** for section holder rest, 8-frame, 60c; for 10-frame, 75c per 100.  
**Tin Rabbets** for frame rests, 8-frame hives, \$1.15; 10-frame hives, \$1.35 per 100.  
**Bent Staples** for T tins, per lb., 40c.  
**End Spacing Staples**, per lb., 20c.  
**Hive Staples**, 1½ in. wide, are used to fasten the bottom, roof or supers to hive body and are readily removed with screw driver or chisel and used again. Per lb., 20c.

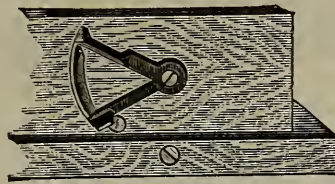


Hive Staple.

**Wire, Bright Tinned, No. 30**, for frames. For lb. spool, 30c; ½ lb. spool, 20c.  
**Super Flat Springs**, to hold the section holders tight together. Price per 100, 75c; per 1,000, \$6.00.



Magnetic Hammer—Common.



### VAN DEUSEN HIVE CLAMP.

These are very convenient for fastening loose bottoms when you want to move hives. They may also be used to hold the cover on, or two bodies together. Price, 35c for 10 pairs, including two screws with each clamp; postage, 3c per pair extra.

### COATED WIRE NAILS FOR HIVES, ETC.

Size.	Length.	Price Per lb.	Per 10 lbs.
1-in., very fine and slim.....		\$ .20	\$1.50
2d, regular, fine, for nailing frames.....		.15	1.25
3d, 1½ in. long, for nailing cases.....		.10	.85
4d, 1¾ in. long.....		.08	.75
5d, 1¾ in. long.....		.08	.75
6d, 1¾ in. long.....		.08	.75
7d, 2¾ in. long, for nailing hives.....		.08	.75

Prices subject to market changes.

**Magnetic Hammers**, common. Price, 15c.

**Magnetic Hammers**, Savage, best quality, 25c.

**Paint for Bee Hives**. Qt., 50c; ½ gal., 80c; gal., \$1.50.

**Paint Brushes**, 3-inch, good article. Price, 45c.

## Foundation Fasteners and Section Presses

### PARKER'S FOUNDATION FASTENER.

Fasten machine to table with screws. Dampen the under side of point of lever with honey or water to prevent its sticking to the foundation. Place section in position

with strip of foundation just under the edge of lever; press lever down on foundation by lifting handle, turn foundation up against end of lever and slide lever off of foundation by

lifting on handle and drawing it backward, which fastens the foundation to section. Price, 25c; by mail, 40c.

### DAISY FOUNDATION FASTENER.

This is probably the best machine for its price for putting starters into sections. It is easily operated and with a little practice a girl or boy will put starters in from 400 to 500 sections per hour. Complete directions are sent with each machine.

Price, with lamp, \$1.00; without lamp, 75c.

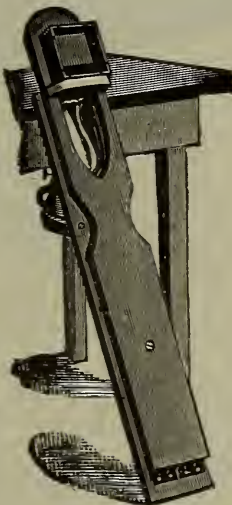
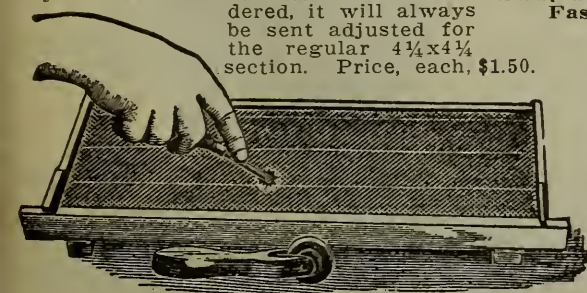
### RAUCHFUSS COMBINED SECTION PRESS AND FOUNDATION FASTENER.

Simplicity, efficiency, accuracy and durability are its chief characteristics, and is guaranteed to give satisfaction. Fitted for 4¼x4¼ sections, with lamp all ready to fasten to table or bench. Price, complete with lamp, \$5.00.

### THE COLORADO SECTION PRESS.

Is the newest and best device in the market for folding sections. It has been used by some of the largest honey producers in Colorado with entire satisfaction. It is a foot power machine, and unlike other low priced devices for this purpose, it is adjustable for any sized section. Unless otherwise ordered, it will always be sent adjusted for the regular 4¼x4¼ section. Price, each, \$1.50.

Price, each, \$1.50.



Daisy Foundation Fastener.



"Higginsville" Section Press.

### ROOT SECTION-PRESS AND FOUNDATION FASTENER.

This is not a combined machine but two separate ones, both together being much simpler than any good single machine on the market.

Price, \$1.50.

### "HIGGINSVILLE" SECTION PRESS.

This machine is a marvel in its way for a low priced Section Press.

All you have to do is to screw it fast to a bench or some upright and it is ready for using. Price, 50c each; by mail, 60c.

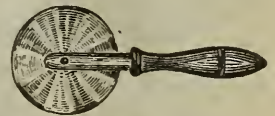
### VAN DEUSEN WAX TUBE FASTENER.



It is simply a tin tube about half an inch in diameter, six inches long, tapering and at the apex a small hole. On one side, near the handle is pricked another small hole which may be opened or closed with the thumb. When the tube is stood up in a cup of hot wax the air will escape from the upper hole and the wax flow in at the other small hole at the bottom. The thumb is closed over the upper one, the instrument is drawn out of the wax, and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. Price, 15c each; by mail, 20c.

### CARLIN'S FOUNDATION CUTTER.

These are very convenient for cutting a great number of pieces, one sheet at a time. The wheel should be kept hot by occasionally immersing in hot water. Price, tin wheel, 15c; by mail, 20c; steel wheel, 25c; by mail, 30c.



### NICKELED-STEEL HIVE-TOOL.

A new spring-steel nickel-plated hive-tool, which is both a scraper and a pry. The end which is turned down at right angles, or the hoe-end, fits nicely up into the palm of the hand when tool is used as a pry or a scraper. Price, 40c; by mail, 46c.



### HIVE SCRAPERS.

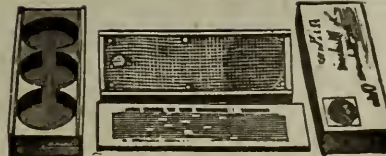
Each, 25c; by mail, 30c.

### SPUR WHEEL WIRE IMBEDDER.

This imbedder has metal wheel with teeth so arranged that by running along the wire the wire is pressed into the foundation. Price, 20c; by mail, 25c.

### DAISY FOUNDATION ROLLER.

Is also illustrated in above cut. Used to press the foundation to the frame. Price, 15c; by mail, 18c.



Benton Cage.

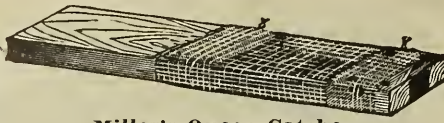
### CAGES FOR QUEENS.

**Benton Cage**. Price, complete, with candy, 8c each; 10 for 60c. Price, without candy, 5c each; 10 for 45c.



**MILLER'S QUEEN CATCHER AND INTRODUCING CAGE.**

Any one who is afraid to catch the queen by the wings can slip this cage right over her, and she will crawl up, and then the plug can be inserted.

**Miller's Queen Catcher.**

It can be used advantageously not only for introducing laying queens, but even virgin queens. Being only  $\frac{1}{4}$  inch thick it can be slipped down between the combs or slid in at the entrance. Price, 10c each; 10 for 80c.

**WEST QUEEN-CELL PROTECTOR.**

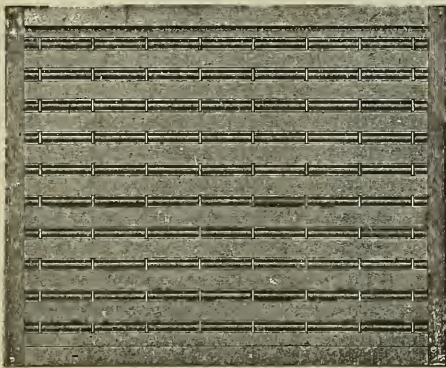
These are to prevent bees from gnawing into and tearing down cells given them at certain times of the year. Price, 5c each; 10 for 40c.

**Spiral Cage** to hold the virgin queens after she hatches, till she can be disposed of; each, 10c; 10 for 70c.

**PERFORATED ZINC QUEEN EXCLUDERS OR HONEY BOARDS.**

These are used to exclude the queen from the upper story. Our zinc is perforated with round corners, size, 17-100 of an inch, the best size and style.

	Each	Per 10
Zinc, size 12x19 $\frac{1}{8}$ , for 8-frame hives.....	\$ .20	\$1.65
Zinc, size 14x19 $\frac{1}{8}$ , for 10-frame hives.....	.20	1.90
Wood bound zinc honey boards, nailed, for 8-frame hives .....	.25	2.15
Wood bound zinc honey boards, nailed, for 10-frame hives .....	.28	2.40

**Wood and Wire Honey-Board.****WOOD AND WIRE HONEY-BOARD.**

This is made just like the wood-bound zinc board, except that the wire strips are substituted for the zinc.

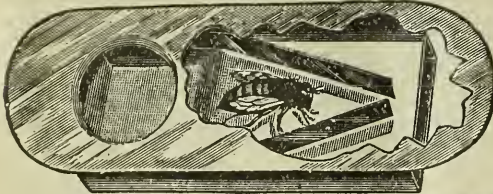
Eight-frame wood and wire honey-board, 13 $\frac{3}{8}$  x20, each, 40c; per 10, \$3.40.

Ten-frame wood and wire honey-board, 16x20, each, 45c; per 10, \$3.75.

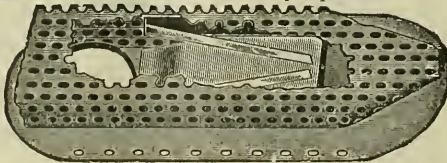
**PORTER'S BEE ESCAPES.**

This escape is far superior to all others.

Bee escapes greatly facilitate the removing of honey from hives and supers. The escape is fastened to a board, after making a suitable hole in same. One escape to a board is sufficient. Complete directions for using the escape

**PORTER'S ESCAPES FOR BEE HOUSES.**

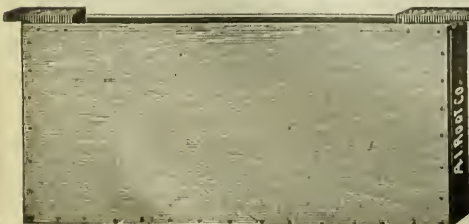
Price, 25c each; \$2.75 per dozen, postpaid.

**SIMPLICITY BEE FEEDER.**

Price, 10c each, by mail, 17c; per 10, 75c; not prepaid.

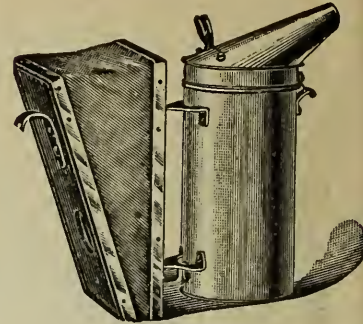
**DIVISION BOARD FEEDER.**

Has the same outside dimensions as an ordinary division board or brood frame, and can be used in the brood chamber the same way. To feed, all that is necessary is to push back the opening on the top bar. Price, nailed, 30c each; by mail, 55c.

**Direct-Draft Perfect BINGHAM Bee Smoker**

PATENTED

1878, 1882 and 1892.

**ROOT SMOKER.**

Guaranteed to burn any fuel, including wood, corn cobs, peat, old rags, etc.

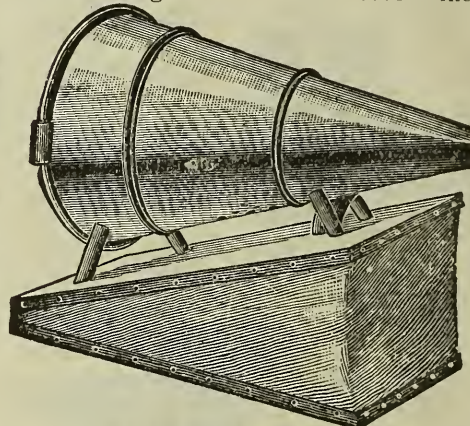
**Standard.** 3 $\frac{1}{4}$  in. diameter. Price, 85c; by mail, \$1.10.

**Jumbo.** 4 inches diameter. Price, \$1.25; by mail, \$1.55.

**DIRECT-DRAFT PERFECT BINGHAM BEE SMOKER**

The direct draft assures constant smoke. They are well made. Have wide shields and wire handles to cone.

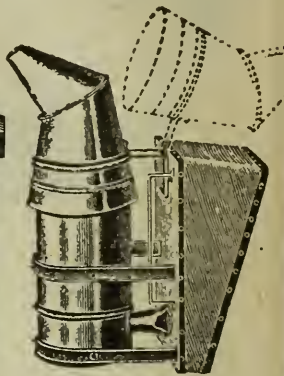
Order by Name.	Size of Barrel	Price Each	By Mail
Conqueror .....	3 inch	\$ .80	\$1.05
Doctor .....	3 $\frac{1}{4}$ inch	1.00	1.25
Smoke Engine .....	4 inch	1.50	1.75

**Clark's Smoker.****CLARK'S SMOKER.**

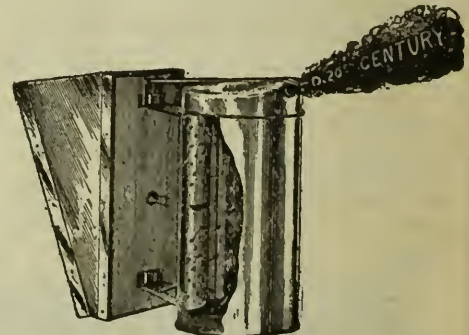
This is the most commonly used smoker on the market. Is cold blast. Very satisfactory in a small apiary. Price, 55c; by mail, 75c.

**HIGGINSVILLE SMOKER.**

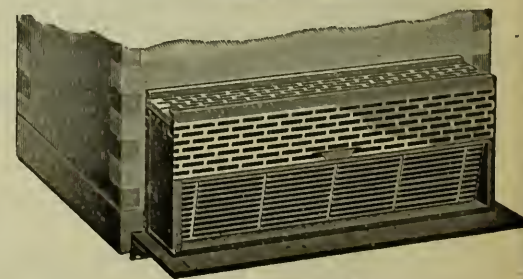
Similar to the Bingham, it has a hot blast, with a 3 $\frac{1}{4}$  inch fire box. The nozzle throws back to admit of filling or cleaning. We believe it as good as any smoker made and a truly high class article. Will outlast many higher priced ones. Price, 75c; by mail, \$1.00.

**DANZENBAKER TWENTIETH-CENTURY SMOKER.**

This is a hot and cold blast smoker combined, having a vertical grate instead of one located in the bottom of the cup, as in other smokers. Like the Root smoker, it has no valve to get out of order. Price, \$1.00; by mail, \$1.25.

**WIRE ALLEY TRAP.**

This is just like the old style except that it has the wire entrance piece. Furnished in both eight and ten-frame widths. Price, 50c each; by mail, 65c.

**Wire Alley Trap.**



**BEE ENTRANCE GUARDS.**

**Wire Entrance-guard.** Made with wood top and ends, with wire front, 20c each; 10 for \$1.50; by mail, 8c each extra.

**Zinc Entrance-guard.** Made of best zinc. 15c each; 2 for 25c; 10 for \$1.00. If by mail, 8c each extra.

Wire Entrance—Guard.

**ALLEY'S COMBINED DRONE AND QUEEN TRAP.**

Directions for use on each trap; price, 50c each; by mail, 65c.

**BEE VEILS.****Globe Bee Veil.**

The veil weighs only 5 ounces. Price, \$1, postpaid.



Globe Veil.

**Bee Veil No. 1.** Cotton tulle, with silk tulle face, 60c each, postpaid.

**No. 2.** Cotton tulle throughout; 50c each, postpaid.

**ALEXANDER BEE-VEIL.**

This is one of the best and strongest bee-veils that we sell. The portion around the face and head consists of a wire cloth made especially in order for this purpose, with eight meshes to the inch, and offers very little obstruction to the eye. The top consists of muslin gathered at the center and the bottom is of the same material made in the form of a skirt that slips loosely around the shoulders. Price, 75c; postpaid.

**BEE-HATS.** Flexible rim, fit any head. Price, 30c, by mail, 40c.



Alexander Veil.

**RUBBER GLOVES.**

They are useful in handling very cross bees, and are a perfect protection for the hands. In ordering be sure to give the number of the size you want, and remember that in rubber you need two sizes larger than you wear in kid.

**Ladies' Gauntlets,** sizes 6, 7, 8; per pair, \$1.65, postage, 5c. **Gent's Gauntlets,** sizes 10, 11, 12; per pair, \$1.75; sizes 13, 14, 15, per pair, \$2.10; postage, 8c.

**CANVAS GLOVES.** 50c per pair; postage, 8c.

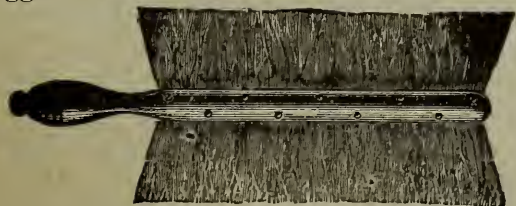
We have these in two sizes only, large for men and small for ladies. You cannot use a tight-fitting glove while working with bees in warm weather.

**COGGSHALL'S BEE BRUSH** (see cut). Price, 15c; by mail, 21c.

**GERMAN BEE BRUSH.** Made of genuine horsehair bristles, either black or white. Black, 25c; white, 30c; by mail, 7c extra.



Cogshall's Bee Brush.



**THE DIXIE BEE BRUSH.** A double brush with soft and pliable fibres in a strong wood handle, long enough to reach across an ordinary Langstroth frame. Price, 15c; by mail, 25c.

**BEESWAX.** We want all beeswax we can get, and will pay the highest market prices in cash. If you or your neighbors have any for sale, let us know and we will buy it. Wax in medium sized cakes preferred.



BINGHAM HONEY KNIFE. Price, 75c; by mail, 85c.



NOVICE HONEY KNIFE. Price, 80c; by mail, 90c.

**MANUM'S SWARM CATCHER.**

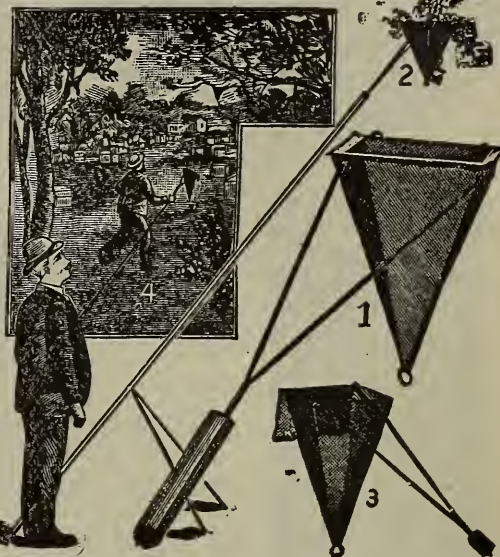
Without a doubt this article is the best of its kind on the market.

Its great feature is that it will stand alone and hold the basket where the bees are flying the thickest, by placing the legs at angles with the main bar (see cut).

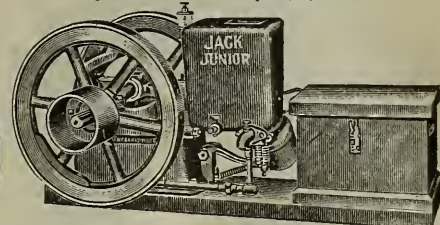
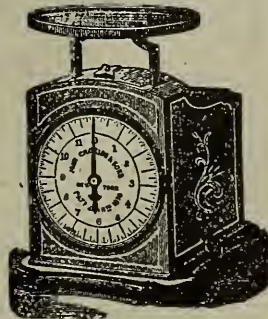
Swarms can be successfully handled 20 feet in the air.

Price, with pole, complete, \$1.35.

Price, without pole, \$1.00.

**THE FAMILY SCALE.**

This is a beautifully finished, accurate instrument for weighing honey or anything else; and it will weigh as close as one ounce without any trouble. Price, \$1.50.

**GASOLINE ENGINE FOR DRIVING HONEY EXTRACTOR —"JACK JR."**

Where a large amount of extracting is to be done, and especially if help is high-priced, we strongly advise the use of a gasoline engine for running the extractor. One horsepower engine, floor space 46x29 inches, capacity of tank, 1 gallon; weight, 440 lbs. Price, \$65.00.

**No. 5B. NOVICE TWO-FRAME (NON-REVERSIBLE) EXTRACTOR.**

For Langstroth or Hoffman frames standing on end, or any other frame not over 9 1/2 in. deep or 18 1/4 long, top-bar 20 in. (wt. 45 lbs.)



It is intended for the use of those who have only a small number of colonies, and who desire a good, well-built, serviceable machine at a moderate cost. While not reversible many think the combs can be handled almost as quickly. Price, \$10.75.

**NOVICE FOUR-FRAME (NON-REVERSIBLE) EXTRACTOR.**

The machine has ball-bearings, top and bottom, and our latest style of gear with slip-gear lever.

No. 54B.—Four-frame Novice for Langstroth or regular Hoffman frames, comb-pockets 9 3/4 in. wide; can 20 in. diameter; weight, 80 lbs. \$15.50.



### No. 15. COWAN RAPID REVERSIBLE EXTRACTOR.

This for many years has been one of our leaders. While it is not automatic in reversing, yet the combs can be turned the other side to by putting one hand down into the can of the machine, catching one basket and then the other, drawing them to the other side while the reel revolves slowly.

Holds two frames; weighs 70 lbs. Price, \$14.00.

### THE ROOT AUTOMATIC REVERSIBLE EXTRACTOR.

This we consider by all odds to be our best machine. It has all the latest attachments, and is capable of heavy work. The automatic reversing feature has stood the test of hard usage for a number of years in some of the largest apiaries in the world. It is simple and positive in its action, the entire mechanism being placed on top of the reel and out of the honey.

No. 25B.—Four-frame Root Automatic for Langstroth frames, 29 inches in diameter (weight 180 lbs.), \$30.00.

### WAX EXTRACTORS.

**One of the Most Paying Things, Considering First Cost, is a Good Solar Wax Extractor.**  
There is not "millions in it," but there is many a dollar's worth of wax that can be saved in a season, even in a small apiary, by having a solar wax extractor setting handy where you can drop in little pieces of comb as they accumulate, and you have no idea how much will accumulate, until some day you look into the wax extractor, and behold! there is a beautiful cake of clear, transparent wax in the extractor pan. "A dollar saved is a dollar earned," and a Solar Wax Extractor will earn this dollar for you. Doolittle Solar Extractor, weighs 30 lbs., \$4.75.

### DADANT'S UNCAPPING CAN.

**This Is Indispensable to the Apiarist Who Has Much Honey to Extract.**  
The uncapping is done over it and the cappings fall on the screen below and are drained. It not only saves a great deal of honey, but also the white wax cappings, and it keeps things neat and clean. This machine is also invaluable for making Sugar Syrup by the percolator plan for feeding. Spread over the wire cloth a thickness of muslin; over this distribute evenly a layer of cotton batting about an inch thick, and over the whole another thickness of muslin. Now pour in sugar and water in equal proportions by measure, and the next morning you can draw off syrup from the lower can just right for feeding. Weighs 60 lbs. Price, \$9.50.

**ROOT GERMAN STEAM WAX PRESS AND UNCAPPING CAN.** Weighs 75 lbs. Price, \$13.50.

### ROUND TAPERING HONEY PAILS.

Can be shipped and stored nested.

- No. 3. Holds 4 lbs. honey; per doz., 80c; per 100, \$5.00.
- No. 5. Holds 7 lbs. honey; per doz., \$1.00; per 100, \$7.00.
- No. 10. Holds 14 lbs. honey; per doz., \$1.50; per 100, \$10.00.
- 1 qt. Friction Top Tin Pails, per doz., 90c; per 100, \$5.25.
- 2 qt. Friction Top Tin Pails, per doz., \$1.15; per 100, \$8.00.
- 1 gal. Friction Top Tin Pails, per doz., \$1.65; per 100, \$11.00.

### SQUARE HONEY CANS.

- Holds 60 lbs.—5 gallons, with screw caps.
  - 1 pair boxed, complete.....\$ .90
  - 10 pair boxed, complete.....\$ 8.50
  - Each, not boxed......35
  - Per 10, not boxed..... 3.00
- Prices on cans and pails fluctuate. When wanting quantity ask for prices.

**COMB BUCKETS.** For five L frames, \$1.35.

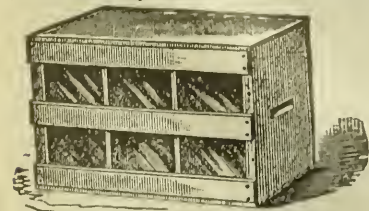
### SHIPPING CASES FOR COMB HONEY.

Comb honey put up in a nice, clean, attractive crate will bring more than when packed in an unattractive shape. Most of our crates are made of snow white basswood, except the bottoms and back, which are not visible when set on a counter. They are simply beautiful to look at, and when filled with nice comb honey they are doubly beautiful.

The 24-lb. double-tier case is almost universally used in Colorado, as it is the one which finds most favor with western dealers in honey. It was adopted as the standard package by the members of the Colorado State Bee Keepers' Association several years ago.

It certainly is the most attractive package, as one-fourth of all the honey contained is exposed to view.

One sheet of paper should be placed in the bottom of the case, and the other over the top inside.



Double Tier Shipping Case.

**Price List of Shipping Cases with Glass, Nails and Paper, Complete. Original Crates are 50 cases each.**

	Each	Per 10	Per 50	Per 100
24-lb. Double Tier, 2½ in. glass.....	.25	\$2.25	\$10.00	\$19.00
24-lb. Single Tier, 2½ in. glass.....	.25	2.00	9.50	18.00
24-lb. Single Tier, wood slide instead of glass.....	.20	1.75	8.50	16.50
24-lb. Single Tier, 2½ in. glass for Danzenbaker sections....	.25	2.15	10.50	19.25
24-lb. Single Tier, 2½ in. glass for Danzenbaker sections....	.25	2.25	10.50	19.25

### GOOD BOOKS FOR BEE-KEEPERS.

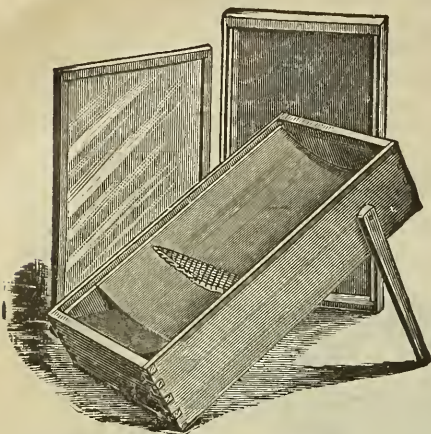
Amateur Bee-Keeper, 80 pages; price, 25c, postpaid.

A. B. C. of Bee Culture, by A. I. Root; \$1.50, postpaid; not postpaid, \$1.25.

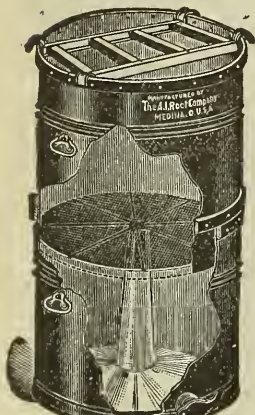
Langstroth on the Honey Bee, revised by Dadant; \$1.20, postpaid; not postpaid, \$1.00.

Advanced Bee Culture, new edition, by Hutchinson; \$1.40, postpaid; not postpaid, \$1.25.

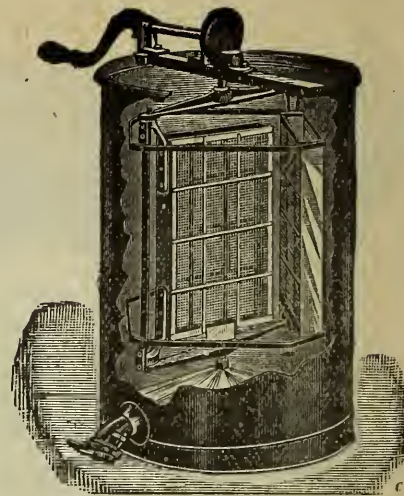
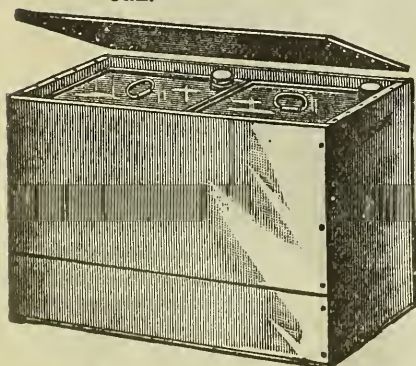
Semi-Monthly Magazine—Bee Gleanings. Very helpful and interesting. Send us your subscriptions. \$1.00 per year.



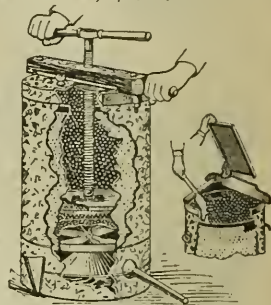
Doolittle Wax Extractor.



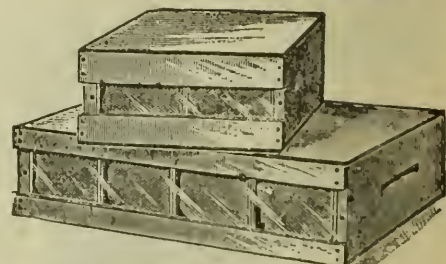
Dadant's Uncapping Can.



Root Automatic Extractor.



German Steam Wax Press.



Single Tier Shipping Case.



# Poultry Department

## Good Books for Poultry and Pet Stock Fanciers

	Price		Price
The Poultry Manual. A guide to successful poultry keeping .....	\$.25	Diseases of Pigeons, by Summers.....	\$.50
Five Hundred Questions and Answers.....	.25	Pigeons and All About Them, by Gilbert.....	1.00
Artificial Incubating and Brooding.....	.50	Successful Pigeon Raising and Breeding, by Press.....	.50
The Leghorns .....	1.00	The Reliable Egg Record and Account Book (32 pages) .....	.25
The Plymouth Rocks (160 pages).....	1.00	Pigeon Queries .....	.25
The Wyandottes (160 pages).....	1.00	Reliable Poultry Remedies.....	.25
Eggs and Egg Farms.....	.50	Money in Squabs.....	.50
Turkeys (new edition).....	.75	The Dog. A cloth-bound book telling all that is necessary to know about choosing, feeding, curing and training .....	.50
The Bantam Fowl.....	.50	The Belgian Hare Guide.....	.25
Capons for Profit.....	.50	Western Poultry World, monthly, one year.....	.50
American Standard of Perfection, latest edition.....	2.00		
Success with Poultry.....	1.00		
Ducks and Geese (new edition).....	.75		
Poultry Houses and Fixtures.....	.50		
Rhode Island Reds.....	.75		
From Shell to Show Room, by Hewes.....	.50		
How to Build Poultry Houses.....	.50		
Minorcas, Even Comb and Color, by Northrop.....	.50		
Profitable Poultry Feeding.....	.50		

### The Cyphers Series of Books on Poultry:

Profitable Poultry Keeping in all Branches.....	.50
Profitable Care and Management.....	.50
Profitable Poultry Houses and Appliances.....	.50
Profitable Egg Farming.....	.50
Profitable Market Poultry.....	.50
The set of five will be mailed on receipt of.....	2.00

## WORLD FAMOUS ESSEX-MODEL INCUBATORS

### The Essex-Model "Standard"

#### THE ONLY HARDWOOD INCUBATOR.

To all buyers of the Standard Essex-Model Incubators, the manufacturers give the following guarantee:

First—To hold more even temperature throughout the egg chamber than any other make.

Second—To be automatic in heating.

Third—To be automatic in ventilating.

Fourth—That a beginner can operate them.

Fifth—That they require no added moisture or water.

Sixth—To be constructed in a superior manner of high-grade material, and to possess double walls and tops thoroughly insulated and packed.

Seventh—To hatch more strong, healthy chicks in three tests than any other incubator made, when run under similar conditions.

Eighth—That these incubators are in successful use on Government and State Experimental Stations, on large commercial poultry plants and by leading fanciers and exhibitors all over the world.

The famous Essex-Model "Standard" Incubators are acknowledged by most successful poultrymen to be America's leaders in Artificial Incubation. These Standard Incubators are made of hardwood, high grade chestnut. They possess double walls thoroughly insulated. The heater is of metal, covered with a thick corrugated asbestos jacket. The non-shrinkable metal regulator arm cannot increase or decrease in weight by the action of moisture.

The Essex-Corrugated Thermostat, the heart of the machine, is the most rigid, the most sensitive, quick acting thermostat made. It is patented and therefore may be used only in the Essex-Model Incubators.

#### PRICES AND SIZES.

No. 0 Standard Incubator holds 100 eggs; shipping weight 90 lbs.	Price.....\$18.00
No. 1 Standard Incubator holds 175 eggs; shipping weight 125 lbs.	Price..... 23.00
No. 2 Standard Incubator holds 275 eggs; shipping weight 165 lbs.	Price..... 32.00
No. 3 Standard Incubator holds 410 eggs; shipping weight 200 lbs.	Price..... 37.00
No. 4 Standard Incubator holds 324 eggs (duck); shipping weight 275 lbs.	Price..... 40.00



ESSEX-MODEL  
INCUBATOR OF QUALITY

Standard Incubator.

Complete with lamp, thermometer and egg tester. No extras to buy.

## THE ESSEX-MODEL "MIDDLE-PRICE"

#### MISSION FINISH—LATEST STYLE MADE.

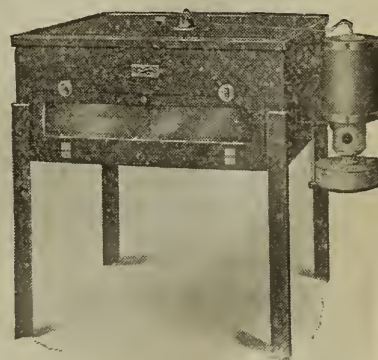
This is a line of Middle-Price Incubators for those earnest poultry keepers who want nothing but a reliable hatcher. In the Middle-Price Incubators the heating and ventilating principle of the Standard Model Incubator is in a great part retained. The double cases are of pine with ample packing or insulating material between them; nicely finished in Mission Style and in every way are a dependable hatcher. Compare these prices with those of any other make of HIGH GRADE MACHINES that holds as many eggs, and you will find that these cost less by one-half. They are positively the greatest values offered in Incubators of these sizes.

#### ESSEX-MODEL MIDDLE-PRICE INCUBATORS

##### Prices and Sizes.

No. A. Holds 70 eggs; shipping weight 50 lbs.	Price.....\$11.00
No. B. Holds 120 eggs; shipping weight 60 lbs.	Price..... 14.00
No. C. Holds 200 eggs; shipping weight 100 lbs.	Price..... 20.00

Call at our store and examine these machines. See how easily they work.



Middle-Price Incubator.

Complete. No extras to buy.

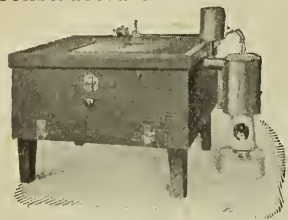


## ESSEX-MODEL "NEW HOMESTEAD" INCUBATOR

THE BEST OF LOW-PRICED MACHINES.

The NEW HOMESTEAD HATCHER. For the first time we are able to offer breeders an opportunity to secure a high class hot water Incubator at a price that during past years has been asked for cheaply constructed, made-to-sell machines. Constructed of first-class material with a handsome Rosewood finish, a heating equipment made wholly of copper and an egg capacity equal to much higher-priced machines, the NEW HOMESTEAD HATCHER has become at once the most popular hot water machine ever offered. Manufactured by a company that has always given the breeder more than value asked, made on correct hatching principles that insure high hatching quality and backed by a guarantee of satisfaction to the buyer. Poultry keepers will take no chance in buying this wonderful little machine.

A special feature in this machine is the double glass in the top through which the eggs and chicks may be seen. The thermometer is also in full view.



New Homestead Incubator.  
Complete. No extras to buy.

The BEST of LOW-PRICED machines. One size only, 70 eggs, shipping weight 25 lbs.  
Price ..... \$8.50

## ESSEX-MODEL COLONY BROODER

Styles A and B

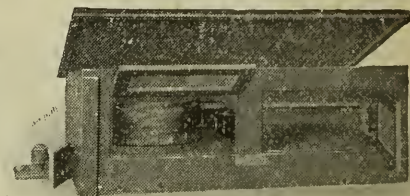
The Essex-Model Brooders are known wherever poultry is raised by reason of their splendid combination of light, heat, ventilation and floor space. Their superiority over all others is readily seen. In these Brooders the fresh outside air is first heated; then introduced and spread throughout the hover without creating a draft. The absence of oil fumes is secured by air tight heating parts, and in all of the Essex-Model Brooders the hover can be readily raised for cleaning purposes. The advantages named place the Essex-Model Brooders in a class by themselves, as the most economical, most practical and highest quality Brooder made.

The Essex-Model A and B Outdoor Colony Brooders and Roost Coops are similar in appearance and construction, the difference between the two Brooders being as follows:

Model A Brooder, price, \$12.50. Contains two apartments and is 28½x47½ inches in size. It has a supplementary cover or diaphragm that may be used for indoor purposes or outdoors in fine weather when the roof is raised, thereby affording superior ventilation. Shipping weight, 95 lbs.

Model B Brooder, price, \$15.50. Contains three apartments, two of them similar to the Model A and an additional exercising apartment separated by a wooden partition. This Brooder is 34½x58½ inches in size. It has a wire screen for the window of the nursery chamber. Shipping weight, 140 pounds.

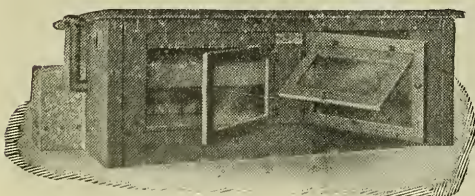
Both of these Brooders have a triple roof including the outer enameled iron one and are practically indestructible.



Colony Brooder—Styles A and B.

## ESSEX-MODEL OUTDOOR BROODER

Style C



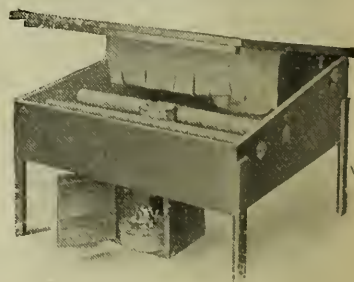
Model C Outdoor Brooder.

This is the best Brooder on the market and the most popular. It needs to be seen to be appreciated. It is the original Colony Brooder of America, and our latest improvements place it further in the lead than ever. This Brooder has three apartments, the hover and nursery being separated by the hover curtain. The exercising room has a removable partition which has a door and a curtain the full width of the Brooder. The nursery apartment is double-walled and insulated, making a triple-walled brooder with five thicknesses of roof. C Brooder is 34½x72 inches. Capacity, 150 chicks.

Price, \$18.50. Shipping weight, 180 lbs.

## ESSEX-MODEL NEW HOMESTEAD BROODER

This is a low-priced Brooder substantially constructed, and is considerably in advance of the kind usually sold at the price we ask for it. It can be used either indoor or outdoors. It is 21x34½ inches and has a chick capacity nearly equal to brooders that are sold for double the money. It is equipped with our superior heavy galvanized iron lamp and chimney, metal heating parts, tested thermometer, and is complete in every way. Capacity, 50 chicks. Price, \$6.50. Shipping weight, 40 lbs.



New Homestead Brooder.

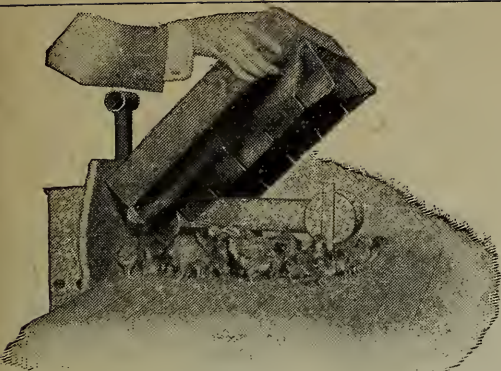
## ESSEX-MODEL FIRELESS BROODER

The Essex-Model Fireless Brooder is a totally new idea—a new invention which marks a distinct advance in the method of ventilating these brooders—and a main objection to other makes has been foul air, damp hover, dead chicks. The Essex-Model Fireless overcomes that objection, and leaves nothing for the operator to do in the way of ventilating. It ventilates itself automatically by a new telescopic action which Mr. Essex has just invented. By this new invention the lower portion of the hover is made to telescope into the upper portion, and may be adjusted any height to provide for chicks of various sizes. It also gives the whole circumference of the hover free from obstruction for ingress and egress of chicks. In that way it differs from fireless brooders which have only a small

opening in one side. In the Essex-Model, chicks can get in and out under the hover on all sides, just as they do from under a hen. The brooder is circular in shape, 20 inches in diameter, and high enough for chicks as long as they need brooding. It is portable, and can be operated in any box, coop, house, or room where the temperature does not fall below the freezing point. The nearest to perfection in the Fireless Brooders.

Price of Essex-Model Fireless Brooders, each ..... \$3.00



**Portable Hover.**

This hover can be picked up and carried around with ease and used anywhere. It gives equally good results in a hen house, barn, cow stall, piano or dry goods box. It is circular in shape, is made of metal throughout, and fireproof. The hover sets on floor just as a mother hen does. The lamp can be lifted out through the top and the operator does not need to kneel in the dust. There is no possibility of gases and fumes from the lamp getting into the air breathed by the chicks. The thermometer can be lifted out, looked at and dropped back without moving the hover (see illustration.) During the winter months this hover can be used for sprouting grain for green feed. It will hold 12 quarts of oats which, when sprouted, will yield in 8 days enough green food to feed 500 laying hens for 3 days. **Price, \$8.50.**

**OAT SPROUTER PAN.** To use in connection with above hover. **Price, \$2.75.**

## The W.-K. Chicken Coop

This Galvanized Iron Coop won't rust, and will last a lifetime.

It is Rat, Weasel, Mink and Skunk proof; and Mites cannot live in an iron house.

It is dry and won't absorb moisture.

It is easily cleaned and is perfectly sanitary.

It is put together in grooves and slides, and is held solid simply by two small bolts, which may be removed and the coop taken apart in a few seconds. The bottom simply slides in and may be removed and cleaned without lifting the coop, disturbing the chickens or soiling your clothes.

The openings are closed by two doors; one solid and one for ventilation. In the solid door is a small opening for young chicks—a door within a door—and its all simplicity simplified. With the screen door a circulation is secured through the ventilators that makes hot nights cool, while the ventilators are perfectly rain-proof. One side of the coop opens like a lid and turns the coop into a model nest; while the lid only partially raised makes a double ventilation when needed.

This coop is about 18x24 in. and 17 in. high, giving plenty of room for a hen and 25 chicks, 'til old enough to shift for themselves. **Price, \$2.00.**

**Oakes' Hydro-Safety Lamp**

These nests are strongly made from heavy japanned steel wire, 1½ inch mesh. Will fasten to wall with screws or hooks. No place for lice or vermin of any kind to lodge; are easy to keep clean and are far superior to wooden boxes.

Price, each, 20c; 3 for 50c.

### OAKES' HYDRO-SAFETY LAMP.

This lamp has been on the market for several years; is well advertised; is well liked and in common use. The Oakes Hydro-Safety Lamp is made for incubator and brooder use exclusively, and its construction in every part is such as to combine absolute safety with economy of oil, a constant even heat and a great convenience in use.

#### PRICES:

- No. 1B. Tin oil fount, galv. iron chimney..\$1.00
- No. 2B. Tin oil fount, galv. iron chimney.. 1.25
- No. 1A. Brass oil fount, blue steel chimney 1.25
- No. 2A. Brass oil fount, blue steel chimney 1.75
- No. 3A. Brass oil fount, blue steel chimney 2.25

If by mail, 25c extra.

### INCUBATOR AND BROODER LAMPS AND PARTS.

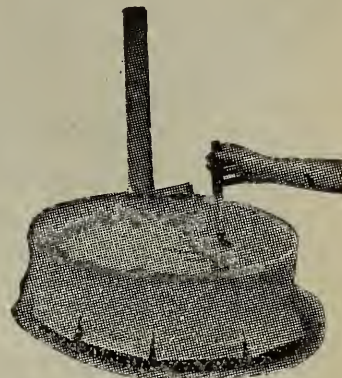
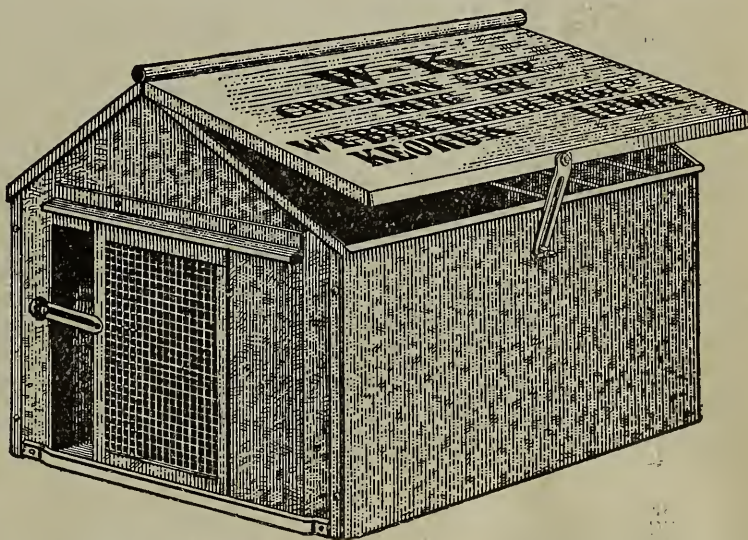
Essex-Model, small size, for Nos. 0, 1, A and B Incubators. Price, without chimney .....	\$ .80
Essex-Model, large size, for Nos. 2, 3 and C Incubators. Price, without chimney .....	1.00
Essex-Model Brooder Lamp for Portable Hover and 1911 Brooders. Price, with chimney .....	1.25
Essex-Model Lamp, complete for Portable Hover and Model B Brooder. Price .....	1.00
Essex-Model Chimneys for all size Brooders. Price, each.....	.25
Cyphers Incubator lamp bowls for No. 0 and No. 1 incubators, 75c each; for No. 2 and No. 3 incubators, each.....	1.00
Barteldes' incubator lamp bowls for No. 0, 35c; No. 1 incubators, 50c; for No. 2 and No. 3 incubators, each.....	.60
Extra lamp burners for No. 0, 25c; for Nos. 1 and 2, 35c; for No. 3 .....	.50
Wicks for incubator or brooder lamps, 3 for.....	.10

## ESSEX-MODEL PORTABLE HOVER

An especially attractive and practical brooding outfit for those who wish to build their own brooders or for attaching to a small colony house or coop, or for use in a brooder house. No other hover possesses as many practical advantages. It may be easily raised for cleaning purposes or to examine the chicks beneath it without detaching it from the brooder—one of our latest improvements not possessed by any other similar hover.

Price, complete, \$7.50. Shipping weight, 25 lbs.

## International Sanitary Hover

**International Sanitary Hover.**

### WIRE NESTS.

### PORCELAIN NEST EGGS.

The "Opal" brand are the best made. They are clean cut and uniform. Worth double the common ones. With these there is no danger of getting stale eggs mixed with the fresh ones, nor the hens acquiring the habit of egg eating. 3 for 10c; 6 for 15c; 12 for 30c. If by mail, 50c per dozen. We can supply in gross lots at special prices.



### LIME NEST EGGS.

These nest eggs are the best imitation of hen eggs and are unbreakable. Each, 5c; per doz., 35c. If by mail, 60c per dozen. For Medicated Nest Eggs, see page 105.

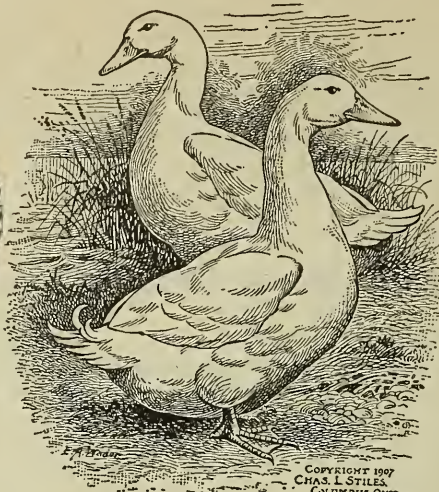


## Thoroughbred Poultry and Eggs for Hatching

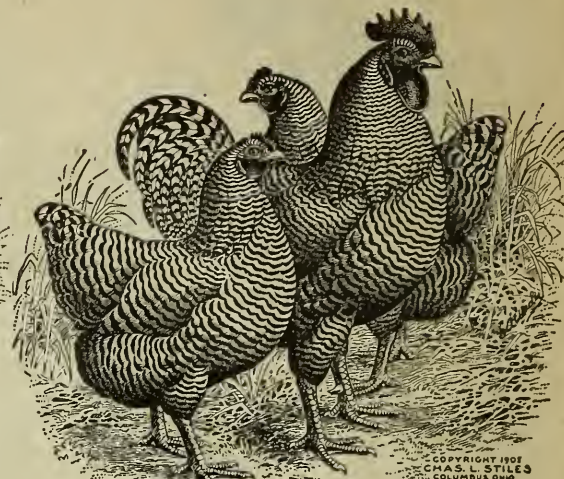
On account of poor hatches, last spring early in the season, good, fancy stock will be hard to procure.



**Brown Leghorns.**



**White Pekins.**



**Barred Plymouth Rocks.**

If you want good honest value in breeding stock, we can usually supply same from good reliable poultry men with whom we have arranged for stock. We do not keep these fowls on hand; thus, it is impossible to fill orders as promptly as we desire. Nearly all of our breeders are located in the country, therefore, when we receive your orders it is necessary to write a letter and it is usually a day before he receives it, and another day before he can deliver the birds to us. Thus, it can easily be seen that it takes three days before we can fill your order.

In very cold weather it is sometimes necessary to hold the birds for a day or so until the weather moderates, as it is dangerous to move valuable birds of the large comb breeds—such as Minorcas and Leghorns—in severe weather, on account of the danger of freezing their combs.

We are particularly careful about shipping birds. Our shipping coops are light but very substantially made and have a slatted top, allowing plenty of air, and taking a cheaper express rate than the canvas coops. Provision is made for feed and water.

During the breeding season, or from February 1st to May 1st, we try to have on hand a display of good cockerels at our store, but outside of this period it is impossible to do this, as the birds which are kept confined are bound to become weakened and sickly in time. The price of these birds depends much on the merit of each particular specimen; therefore, it is difficult to give exact prices in the catalogue.

In writing for birds be sure to state whether you wish utility or show birds.

We are always glad to make quotations, so do not hesitate to inquire.

**We advertise all kinds of eggs for hatching, but please remember that we do not guarantee them.**

We secure our eggs from reliable and up-to-date breeders, and we have every reason to believe that they will run about 85% fertile, but on account of the amount of handling which they are bound to receive in our hands and in transit, we have found it necessary to withdraw any guarantee whatever. We regret very much that we find it necessary to do this, however, we have decided it to be best for all parties concerned.

Please do not order Turkey, Duck and Geese eggs too early.

Turkeys and Ducks do not usually start laying in this locality much before March 15th, and as the first eggs are never the best, we think the first of April is plenty early.

Orders for one and two settings are packed in Anderson Egg boxes. Each egg has a compartment, and is carefully protected by layers of corrugated paper. Larger lots are packed in baskets.

All eggs must go via express. We send a notice by mail the same day that the express shipment is made, advising customer of same. No goods sent C. O. D.

	Males	Trio	Doz.	Eggs Per 1 Setting	Eggs Per 2 Settings
Barred Plymouth Rocks	\$ 3.00 to \$12.00	\$ 6.00 to \$15.00		\$3.00	\$4.50
White Plymouth Rocks	4.00 to 12.00	6.00 to 15.00		3.00	4.50
White Wyandottes	4.00 to 10.00	6.00 to 12.00		3.00	4.50
Black Langshans	5.00 to 15.00	8.00 to 15.00		3.00	4.50
Light Brahmas	4.00 to 10.00	7.00 to 12.00		3.00	4.50
Rhode Island Reds	3.00 to 10.00	6.00 to 12.00		3.00	4.50
Brown Leghorns, Single Comb	2.50 to 6.00	6.00 to 10.00		2.50	4.00
Brown Leghorns, Rose Comb	3.50 to 8.00	7.00 to 10.00		2.50	4.00
White Leghorns, Single Comb	2.50 to 6.00	6.00 to 10.00		2.50	4.00
White Leghorns, Rose Comb	3.50 to 8.00	7.00 to 10.00		2.50	4.00
Buff Leghorns, Single Comb	4.00 to 10.00	8.00 to 12.00		3.00	4.50
Black Leghorns, Single Comb	5.00 to 10.00	8.00 to 12.00		3.00	4.50
Buff Orpingtons	4.00 to 10.00	8.00 to 12.00		3.00	4.50
White Orpingtons	5.00 to 10.00	12.00 to 25.00		4.00	6.50
Black Minorcas, Single Comb	4.00 to 8.00	8.00 to 12.00		3.00	4.50
Black Minorcas, Rose Comb	5.00 to 10.00	8.00 to 12.00		3.00	4.50
Houdans	4.00 to 10.00	8.00 to 12.00		3.00	4.50
Guineas, Pearl	2.00 to 3.00	4.00 to 6.00		2.00	3.25
Turkeys, Bronze	7.00 to 12.00	15.00 to 20.00		3.00	4.50
Turkeys, White Holland	7.00 to 12.00	15.00 to 20.00		3.50	6.00
Ducks, White Pekin	2.50 to 5.00	8.00 to 12.00		2.50	4.25
Ducks, Indian Runner	3.00 to 5.00	8.00 to 12.00		2.50	4.25
Geese, Toulouse	5.00 to 7.00	15.00 to 20.00		50c each.	
Pigeons, Homers, per pair	1.50 to 2.00				

### A FEW THINGS TO REMEMBER IF YOU WANT YOUR CHICKENS TO DO WELL:

Do not keep a hen more than two years unless exceptionally good.

Young hens are the early winter layers and they will commence laying when 5 to 8 months old, according to breed, thus, if you want them to lay in October, November and December, when eggs are bringing a good price, hatch your chicks in March, April and the beginning of May.

Every year or so introduce new blood into your flock, either by getting a male bird or a setting of eggs. Fowls too much inbred lose vigor.

Build your houses so as to have plenty of sunshine and fresh air, but be sure that there is no draught and that the roof is not leaky. Most of the diseases come from draught, dampness and foul air.

Feed your chickens enough to keep the body warm and have a little more for laying. Nature requires more feed in winter to keep the body warm, and hens cannot lay eggs until this want is first provided for, then the surplus feed goes to make eggs.

Do not expect your hens to lay much if you feed grain alone. They must have, to do their best, vegetables or alfalfa meal, meat, ground bone, oyster shell and grit, in addition to grain.

Keep the house clean and free from mites and lice and the chickens will amply repay you for your work.

Don't feed the chicks wet food.

Don't forget to feed mash 3 or 4 times a week.

Don't keep your brooder too warm.

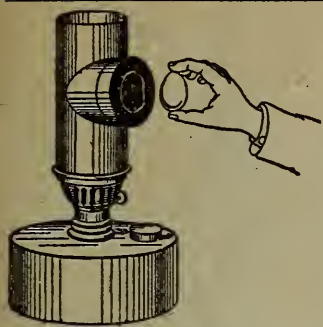
Don't expect fertile eggs from an over-fat hen.

Don't feed little chicks more than they will eat up clean.

Don't forget to keep charcoal before your fowls at all times.

Don't take chicks out of incubator too soon.





X-Ray Egg Tester.

## EGG TESTERS

## X-RAY EGG TESTER.

This is one of the best and cheapest small sized egg testers on the market. It will fit any ordinary house lamp, and will show you just how the eggs are progressing. For the ordinary user this egg tester meets all requirements. Price, 25c; by mail, 35c.

## THE "PRACTICAL" EGG TESTER.

The standard tester in use on large eastern duck and broiler farms, and one that embodies the best ideas to date. This tester is equipped with an extra strong reflector, also a good No. 3 lamp, and will last a lifetime with proper care. No better made or more practical tester has ever been placed on the market. Price, \$1.60.



## THE DAVIS RAPID EGG TESTER.

Consists of a hard wood, handsomely finished box  $6\frac{1}{2} \times 6 \times 3$  inches, lined with asbestos and covered with black felt cloth. It is operated by placing an ordinary light globe within the tester and attaching the cord on the tester to the socket. The eggs are placed within the beveled-edge slots on top of the tester and the light shows whether they are good or bad. Can be used in broad daylight with perfect results.

Price, with 6-ft. extension cord..... \$2.50



Davis Rapid Egg Tester.

## HIGH GRADE TESTED THERMOMETERS.



**Essex-Model Incubator Thermometer.** An accurate, guaranteed thermometer. Glass tube is made to magnify the mercury. Price, each, 60c, postpaid; 50c each, not postpaid.

**Essex Thermometer Wires.** Made to hang thermometer in the egg chamber to save space. Price, each, 10c.

**Certified Thermometer** with scale also etched on the glass tube, with certificate, \$1.50; 2 for \$2.50, postpaid.

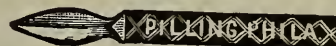
**Incubator Thermometer**, round corners, tube set at an angle, 75c; 2 for \$1.25, postpaid.

**Brooder Thermometer** with magnifying lens front, postpaid, 75c; 2 for \$1.25.

**Brooder Thermometer**, flat, 35c, postpaid.

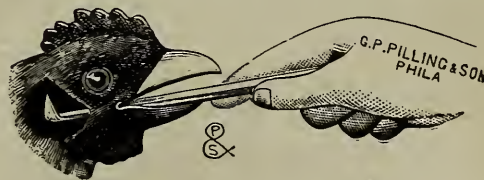
**Special Thermometer** for Cypher's Brooders, 45c, postpaid.

## FRENCH POULTRY KILLING KNIFE.



Every poultry raiser should have one Killing Knife. These are made of finely tempered instrument steel, with nickled handle; will last a lifetime. Sent postpaid on receipt of 50c.

## PILLING ANGULAR KILLING KNIFE.



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 50 cents, postpaid.

## PLAIN BRUSSELS HAIR GAPE WORM EXTRACTOR.

10c each, postpaid.

## PHILADELPHIA GAPE WORM EXTRACTOR.

Price, postpaid, 25c.

## CAPONIZING INSTRUMENTS.

They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing full directions for using the instruments and caring for the capons. Book alone is 10c.



Philadelphia Caponizing Sets.

Complete set, in plain pasteboard box, postpaid, \$2.50.

Complete set, velvet case, postpaid, \$2.75.

Farmer's Caponizing Set in velvet case, postpaid, \$3.00.

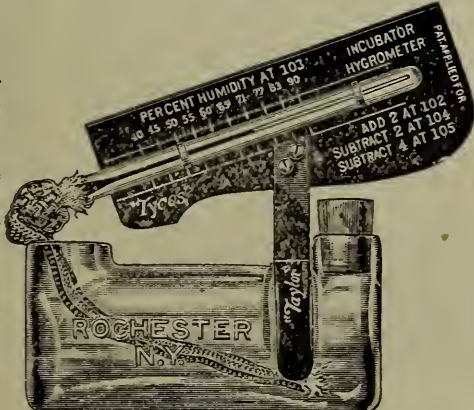


## ESSEX-MODEL COMBINATION THERMOMETER AND HYGROMETER.

Saves space in the incubator by mounting the thermometer and the hygrometer on one stand. Price, each, \$1.75.

## TYCOS HYGRO-METER.

The use of an incubator hygrometer effectively lessens the percentage of chicks dying in the shell, due very largely to improper moisture conditions. The illustration shows the correct position of the instrument in use taking the place of one egg in the egg tray, thus showing the conditions actually surrounding the eggs. Price, \$1.50, by mail, \$1.65. Extra wicks for same, each, 10c; per doz., \$1.00, postpaid.



Tycos Hygrometer.

## ESSEX-MODEL "READ EASY" HYGRO-METER.

It enables the operator to decide just how much moisture is in the machine when the temperature is at or near the incubating point. It is very simple and is arranged to read as easy as a thermometer. Price, each, \$1.25.



## Poultry Markers

### THE "PHILADELPHIA."

This marker is made in two sizes, one for chicks and for adult fowls. The size of the holes punched are shown by the black dots printed at one side of the marker. The size made for adult fowls is too large for proper use on chicks newly hatched. Price, 25c, postpaid.

### THE "ACME."

The spring lever arrangement enables one to use this punch with perfect ease, holding the chick in one hand and working punch with other. It is light and very durable. Price, 25c, postpaid.

### THE MODEL TOE MARKER.

This punch is accurately fitted for cutting a clean hole and will not mutilate the web as many other punches do. It is nickel plated and makes an attractive tool and is one which just fits the hand, making it easy to hold and operate.

Price, 50 cents, postpaid.

### PERFECT POCKET POULTRY PUNCH.

This is a handy little pocket size punch, easy to use and is well made. It is easily worth the money. Price, 25 cents, postpaid.

## Leg Bands

### Model Toe Marker.

### CLIMAX OR "STAY-ON" LEG BANDS.

These rings are made of spring brass and so bent that the tag acts as a clasp, holding them securely in place. Tags are aluminum. Mention size wanted when ordering.

Price, 12 for 20c; 25 for 35c; 50 for 60c; 100 for \$1.00, postpaid.



"Stay-on."

### PIGEON BANDS.

Made from aluminum tubing. Are put on safely when birds are young. Are very light.

Price, 12 for 20c; 25 for 40c; 50 for 75c; 100 for \$1.35.

### OPEN PIGEON BANDS.

Made from flat aluminum. Price, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c.

### DOUBLE CLINCHED PIGEON BANDS.

No. 1. 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c.  
No. 2. Same price as No. 1.

### ROUND ALUMINUM WIRE BANDS.

Made of wire aluminum, flattened where the number is placed. Sample free for the asking. The most satisfactory leg band on the market. Are used by a majority of the largest breeders in the West. Made in 4 sizes: No. 1, extra large; No. 2, large; No. 3, medium; No. 4, small.

Price, 12 for 20c; 25 for 40c; 50 for 75c; 100 for \$1.35, postpaid.

All bands are numbered unless otherwise ordered.



Round Aluminum.

### THE IMPROVED CHAMPION LEG BANDS.



Made of pliable aluminum, which can be adjusted to fit any size leg. Three-inch size for all ordinary breeds; 4-inch size for extra large and turkeys. All neatly numbered.

Price, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c, postpaid.

### SMITH'S SEALED BANDS.

By the use of these positive identification of a bird banded by one of these bands is without question. They are made from flat aluminum with edges carefully rounded. Positively no duplicates are manufactured. These bands are affixed with a sealer tool. The use of these bands is the correct way to keep record of prize stock.

Price, 12 for 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.



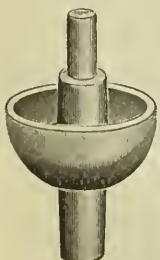
Smith's Sealed Band.

Sealers for sealing bands, 50c each.

**Poultry Show Secretaries and others buying Leg Bands in large quantities will do well to write us.**

### IRON ROOST INSULATORS.

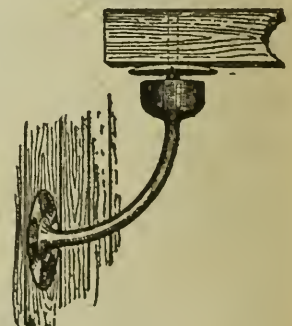
The use of a pair of these Iron Roost Insulators will prevent fowls from being troubled at night by mites and lice as they cannot crawl from the walls or supports onto the perch on account of the oil, or liquid lice killer, contained in the cups. They connect the supports and the roost. Price, pair, 25c; prepaid, 45c.



Iron Roost Insulator.

### LICE PROOF PERCH SUPPORTS.

When the little cup is filled with coal oil, Barteldes' Lice Killer, or any of the numerous liquid insecticides or disinfectants, it is impossible for lice to pass from the walls of the building to the roost, or from the roost to the building; hence hens can roost in perfect peace at night, and in a short time your fowls will be free from the plague, the lice dying for want of nourishment. Price, sample pair, 35c; prepaid, 65c; doz., \$3.50; not prepaid.

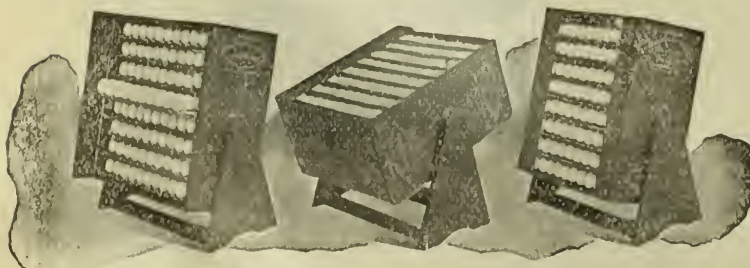


### WOOD'S REVOLVING EGG CABINETS.

Eggs intended for hatching should be turned daily. Wood's Revolving Egg Cabinets are a practical device for doing this work and meet a widespread need among poultrymen who save eggs for hatching.

#### PRICES.

150-egg size, weight 30 lbs. .... \$4.25  
288-egg size, weight 55 lbs. .... \$8.00





## Drinking Fountains

### BARTELDES' TWO-PIECE EARTHEN DRINKING FOUNTAIN.

These stoneware drinking fountains keep the water cool and clean, and chicks from getting wet or drowned. Made with open bottom for convenience of cleaning, and inverted into a pan. Price, 2-qt. size, 35c; gal. size, 50c.



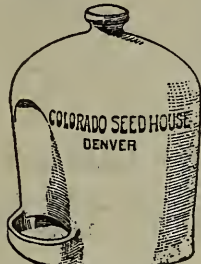
### THE "COLORADO" FOUNTAIN. One Piece.

Half gallon, each 25c; one gallon, each 35c. Special brooder size, holds about 1½ quarts, fits inside brooder, each 25c.



### MOE'S DRINKING FOUNTAINS.

One gallon.....\$1.35  
Two gallon..... 1.85



The Colorado.

### THE "SANITARY" FOUNTAIN.

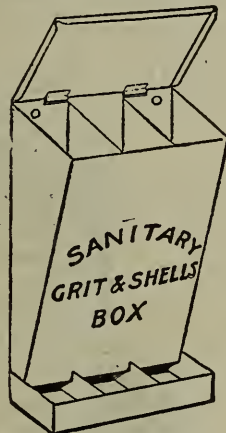
A square, galvanized fountain, in two parts. A slight pull on the projecting part of the bottom removes it entirely, and, by using a small whisk broom,

both parts are easily and thoroughly cleaned. It is filled instantly. It can be hung up out of the dirt on an ordinary nail or hook.

Price, 1 gallon size, 60c; 2 gallon size, 90c.

### HENFRIEND DRINKING FOUNTAIN.

Can be used also as a feed box. Size No. 1, 60c; size No. 2, 50c; size No. 3, 35c.



### SANITARY SELF-FEEDING BOXES FOR POULTRY.

This box is manufactured from the best galvanized iron. It can be hung up against the wall at any height desired. It is a first-class article, is practically indestructible and will last a lifetime. No. 0, 1 pint to a bin, 3 compartments, price, 40c. No. 1, 2 quarts to a bin, 3 compartments, price, 75c. No. 2, 2 large compartments, price, \$1.00.

PEERLESS HOPPERS. 8-qt., \$1.15; 16-qt., \$1.65; 32-qt., \$2.25.

## Shipping and Exhibition Coops

### BARTELDES' EXHIBITION COOPS.

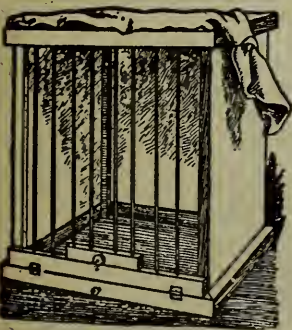
#### The Popular Show Coops. Chicken Coop.

It is strong and can be sent long distances with safety to itself and contents. The iron bars are ¼-inch iron; the ends, top and back of heavy canvas. The door is wide and raises full length of the coop. Wood part painted blue. A curtain drops over front. The narrow door at bottom admits of cleaning out litter, etc. Shipped to customers K. D. Can be put together quickly.

No. 1, for pair, 24x24x30 in., each, \$2.25.

No. 2, for pen, 24x42x30 in., each, \$2.75.

No. 3, same dimensions as No. 2, but has removable center partition and two front sliding doors. Each, \$3.25.



### ELATERITE RE-INFORCED ROOFING.

This is made of solid body, tough, pliable and durable, Elaterite Cement, re-inforced with one layer of heavy imported India burlap, backed with highly compressed saturated wool felt. Top surface is mica. It is water, steam, acid and fire proof. No coal tar is used in its make-up. Put up in rolls 40 feet long and 32 inches wide, complete with nails and cement.

4X grade, medium, weighs about 55 lbs., price, \$3.75 per roll.

5X grade, heavy, weighs about 65 lbs., price, \$4.00 per roll.



### DAVIS FOOD AND WATER FOUNTAIN.

One of the most handy fixtures for poultrymen. Can be filled with water or feed. It consists of an iron frame, into which any kind of bottle or mason jar is inverted, and can be hung anywhere. See illustrations. Price, frame only, 25c; by mail, 30c.

### FEED AND WATER JARS.

Plain, made of stoneware, holding about 1½ quarts. For either feed or water. Very easy to keep clean. 6x3 inches inside. Price, 2 for 25c; 1 dozen, \$1.40.

Concave, same size jar with concave bottom. Will not crack from freezing water and is not easily upset. Same price as the plain.

### MODEL WALL FOUNTAIN.

This fountain is made of galvanized iron and is flattened on the back so it can be hung on the wall of the poultry house to prevent litter from getting in the water. It has a good sized square opening, making it easy to clean and permitting a free flow of water. It will last a lifetime.

Price, 1 qt. size, 50c; 1 gal. size, 75c; 2 gal. size, \$1.00.

### MODEL CANFIELD DRINKING CUPS.

These cups are made of sheet iron, heavily enameled, and hold half a pint each. They are indispensable for watering and feeding birds cooped in exhibition cages. The back is flat with hooks provided for hanging to slats or wire front of cage. Have large flat bottoms to prevent tipping if set in cage.

Price, each, 15c; by mail, 20c.

### BOSTON FEED HOPPERS.

Chick size, price.....\$1.00  
Hen size, price.....\$1.00  
Hopper for shell, grit, etc.....85c

### BARTELDES' GALVANIZED FEED TROUGH,

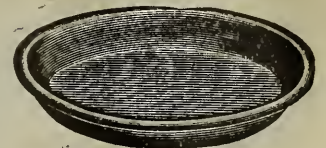
No. 1. Size, 12 inches long, in 1, 2 or 3 compartments, price, 25c.

No. 2. Size, 30 inches long, width 7 inches, depth 4 inches, price, \$1.00.

### PIGEON NAPPIES.

7-in. diameter, 2 for 25c; 12 for \$1.40.

9-in. diameter, 15c each; 12 for \$1.65.



Pigeon Nappy.

**Pigeon and Bantam Coop.** 45x15 inches, with two partitions, dividing into three compartments. These partitions are hinged and can be opened back and fastened, thus making one large compartment. Each, \$2.50.

### RACINE SHIPPING COOP.

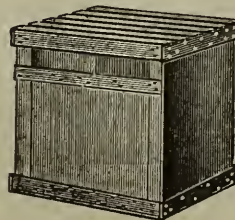
Size A, for single bird, 12 in. wide, 21 in. long, 21 in. high, 40c each; \$4.00 dozen.

Size B, for pair or trio, 18 in. wide, 21 in. long, 21 in. high, 50c each; \$5.25 dozen.

Size C, for pen, 24 in. wide, 21 in. long, 21 in. high, strong, 60c each; \$6.00 dozen.

Size D, for pen, 30x21x21, extra strong, 70c each; \$6.75 dozen.

Six of one size at the dozen rate.

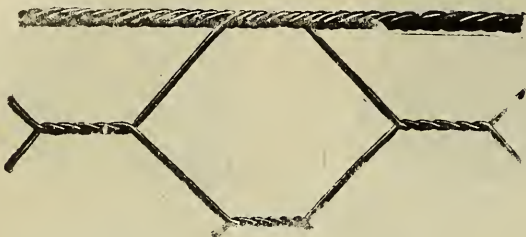




## INDIA RUBBER ROOFING.

Just the thing for that chicken house. Put up in rolls 40 feet long and 32 inches wide, enough to cover 100 square feet, allowing 2-inch lap. Complete with nails and cement.

1 ply, light, weighs about 35 lbs., price, \$1.70 per roll. 2 ply, medium, weighs about 45 lbs., price, \$2.00 per roll. 3 ply, heavy, weighs about 55 lbs., price, \$2.35 per roll.



## TARRED PAPER.

Cover your chicken houses with tarred paper to keep dampness out and to prevent draughts. Can be furnished in rolls, ranging from 40 to 60 pounds, and 32 inches wide. Price, 2½c per pound.

## GALVANIZED POULTRY NETTING.

The best and cheapest fence to put around a chicken yard. Sold in full rolls of 150 lineal feet, any size from 3 to 6 feet high; 2-inch meshes. Price, 60c per 100 square feet. Rabbit wire, 1-inch meshes, from 1 to 3 feet high. Price, \$1.60 per 100 square feet.

## Egg Boxes and Carriers



## EGG SHIPPING BOXES.

## The Anderson.

It's made of corrugated paper and is a most excellent shipping box. Is supplied knocked down.

No. 3, holds 15 eggs, 15c each; \$1.50 dozen.

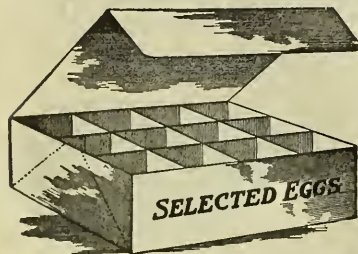
No. 4, holds 30 eggs, 20c each; \$2.25 dozen.

No. 5, holds 50 eggs, 30c each; \$3.00 dozen.

If wanted by mail, add 20c, 25c and 30c each for postage.

## PAPER EGG BOXES.

Just the thing for use in delivering eggs for family egg trade. You will get a premium over market when you deliver good stock in these boxes.



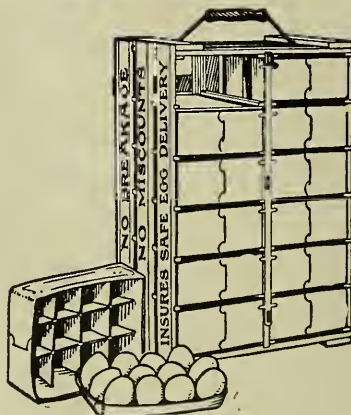
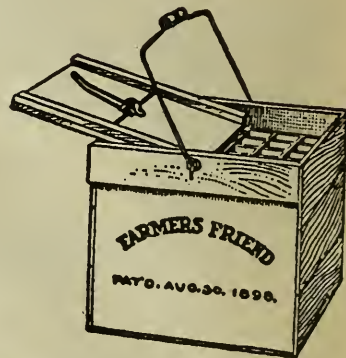
**Erie.** One dozen size, arranged like cut, 3x4. Single dozen, 15c; 100 for \$1.00; 1,000 for \$8.00. If by mail, add 20c per dozen.

**Sewanee.** One dozen size, long shaped, 2x6, extra heavy paper. Single dozen, 20c; 100 for \$1.35; 1,000 for \$10.00. If by mail, add 20c per dozen for postage.

## FARMER'S FRIEND EGG CARRIER.

The most complete egg carrier on the market; holds twelve dozen eggs. It is equipped with an adjustable cover and a patent combination lifter and fastener. Just the thing for the farmer and poultryman.

Price, complete, 75c.



## Modern Egg Crate

Size No. 4, holds 4 dozen eggs.....\$1.25  
Size No. 8, holds 8 dozen eggs..... 1.50  
Size No. 12, holds 12 dozen eggs..... 1.75

## HUMPTY DUMPTY EGG CARRIER, SLATTED CRATES.

This carrier can be folded flat when not in use. Six dozen size, 35c each; 12 dozen size, 50c each.

## MODERN EGG CRATES.

These crates are light in weight, well balanced, and strong enough to withstand any use. The frame work is made of white wood and the individual carriers are constructed of the toughest kind of jute board with compartment divisions, thus assuring perfect safety for eggs.

## Egg and Meat Preservers

## WATER GLASS EGG PRESERVER.

It is a simple matter to preserve eggs with Water Glass Egg Preserver. The pure heavy Water Glass is simply diluted one part to ten of boiled water, the eggs placed in an earthen jar or barrel and covered with the solution. If you are preserving your eggs as fast as they are laid, make a solution first and put the eggs in it as they are gathered.

When strictly fresh eggs have been put into Water

Glass Egg Preserver they have invariably, at the end of six months, come out in better shape than the average market eggs supposed to be fresh.

One gallon of Water Glass Egg Preserver will preserve nearly 100 dozen eggs. Price, gallon, \$1.50; quart, 40c; pint, 25c Cannot be mailed.

## SMOKE EXTRACT.

This is a liquified hickory smoke, and is used for smoking hams and bacon. It is applied with a brush, and gives exactly the same results as if deposited on the meat by the old method of smoking. Try a bottle of it on some of your

hams or bacon, and you will never go back to the old method of smoking.

Price, small bottle, 35c; large bottle, 75c. Cannot be mailed.

## THE BARTELDES SEED CO.

Sirs: Some years ago I had a great deal of trouble raising my baby chicks. Indigestion of different forms. I was feeding this, that and the other feed. I finally tried your prepared chick food and developing food. The trial proved so satisfactory I have never ceased to recommend it to all poultry raisers. Wishing you success in maintaining the high standard of your foods, I remain,

Very respectfully yours,

C. H. WATT.



# BARTELDES' BEST LINE

## Condition Powders, Lice Killers and Remedies

If wanted by mail 8 to 12c extra for postage.



### BARTELDES' LIMBERNECK REMEDY.

Limberneck is caused by eating decayed animal matter, and is fatal if not treated at once. This remedy is one of the most effective ever put on the market, and will do the work if used in time. Price, per pkg., 50c; postpaid.

### BARTELDES' POULTRY REGULATOR.

Is a compound of vegetable extracts, herbs, roots, etc., so proportioned that they act gently on the fowls internal organs, relieve and remove any irregularities that exist and tone up the system. It is the best condition powder on the market; try it. Small size package, 25c; large size package, 50c.

### BARTELDES' COLUMBINE GRADE PARROT FOOD.

Is a mixed food which will keep Polly in good health. Put up in packages. Price, 15c; by mail, 30c.

### BARTELDES' LIQUID LICE KILLER.

A wholesale lice and vermin destroyer. Saves expenses and labor. No dipping, no dusting, no greasing, easily applied. Does not injure or mar the plumage. 1-quart can, 35c; ½-gallon can, 60c; 1 gallon can, \$1.00.



Medicated Nest Egg.

### BARTELDES' INSECT POWDER.

Will kill insects on poultry, live stock and plants; exterminates chiggers, moths, ants, roaches, fleas, lice, etc. Can with perforated top, 25c; by mail, 45c.

### BARTELDES' MEDICATED NEST EGG.

Lice destroyer and nest egg combined. It is a sure death to all lice and mites affecting poultry. When in use it slowly wastes away, giving off fumes fatal to all insect vermin. 5c each; 50c per dozen; by mail, 75c.



Fumigating Candle.

They are easy to light, easy to extinguish, safe to use, and produce a deadly vapor to all infectious diseases, disease germs and insect life. Price, each, 10c; per dozen, \$1.00; by mail, each, 5c extra.

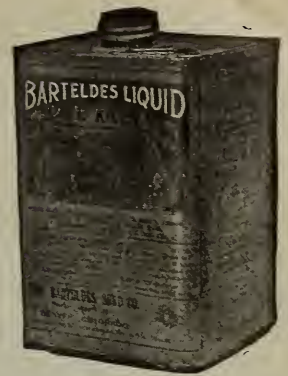
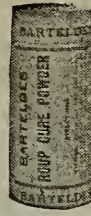
### FLOUR OF SULPHUR.

Good to remedy canker mouth, etc. Also to burn as disinfectant. 1 lb., 10c; 4 lbs., 35c; 10 lbs., 60c.

**CHLOROLEUM.**—Similar to Creolite.—Liquid. Chloroleum disinfects, kills lice and mites, cures and prevents cholera and roup in poultry. Effectual and economical. 6-oz. bottle, 25c; 12-oz. bottle, 40c; qt. can, 60c; ½ gal., 85c; gallon, \$1.50.

A scientific remedy and preventative for cholera, roup and white diarrhoea; also cure for gapes, diarrhoea in sheep, salves, solts and kidney worm in hogs. All of these diseases are caused by germs, and the only way to cure the disease is to kill the germ; the surest and safest remedy on the market is Oculum.

Inneculate your fowls and prevent these diseases. Oculum is very easy to apply. Directions and droppers with each bottle. Prices, 10c; 50c and \$1.00.



### BARTELDES' BRONCHITIS REMEDY.

This is one of the best remedies for Bronchitis. As this disease is caused by colds, keep the fowls out of damp quarters, sudden changes of temperature, etc. Price, per pkg., 50c; postpaid.

### BARTELDES' WHITE DIARRHOEA REMEDY.

White Diarrhoea is often times not serious in itself, but will lead to something worse. It ought to be treated immediately with Barteldes' White Diarrhoea Remedy. Price, per bottle, 50c; cannot be mailed.

### BARTELDES' MICROZONE—Liquid.

This up-to-date remedy will cure roup, sore eyes, sore mouth, sore breast, back or shoulder, cracked heels, wounds, sores or cuts, saddle galls and canker. Used in drinking water for roup, or a teaspoonful is mixed with one pint of warm water and applied with a clean rag on sores. Bottle, 50c. Tablets, concentrated; dissolves easily; 50c, postpaid.

### BARTELDES' ANIMAL REGULATOR.

It is not only one of the best regulators but also a stimulating tonic. It consists of pure medicinal roots, barks and herbs, carefully mixed in the exact proportions to gently act on the bowels, liver and digestive organs of farm animals, and to purify the blood. It insures a perfect digestion. The worst run-down animal can be given Barteldes' Animal Regulator according to directions printed on each package and an improvement will be noticed in a very short time.

Small size carton, 25c; large size carton, 50c; 9-lb. sack, \$1.00; 14-lb. sack, \$1.50.

### BARTELDES' CHOLERA CURE.

The surest and most effective cure for cholera and other digestive organ troubles. Used in drinking water. Price, 50c, postpaid.

### BARTELDES' ROUP CURE.

Cures Roup and Cures it Quick.

This preparation is a powder and has made some wonderful cures. It is very effective and quick acting. Will cure the most stubborn cases. Used in drinking water. It is put up in three sizes—small, 25c; medium, 50c; large, \$1.00, postpaid.

### BARTELDES' SCALY LEG AND HEAD LICE SALVE.

Used on young chicks and for scaly legs. Small size can, 10c; large size can, 25c, postpaid.

### BARTELDES' NO-FLY—Liquid.

Will keep flies off your cows and horses. ½ gallon, 60c; gallon, \$1.00.

## LICE KILLERS

If lice killers are wanted by mail add 8 to 12c per lb.

### PURE SULPHUR FUMIGATING CANDLES.

Our Pure Sulphur Fumigating Candles are equal to any Fumigating Candles on the market.

### LIME AND SULPHUR SOLUTION.—Liquid.

Extensively used for spraying poultry houses to kill lice and mites. For full description see page 75.

### PERSIAN INSECT POWDER.

The grade we handle is strictly pure. Don't be deceived by any low priced, adulterated article. ¼ lb., 20c; ½ lb., 35c; 1 lb., 50c.

### TOBACCO DUST.

Ground very fine. Drives away lice and vermin. 1 lb., 10c; 5 lbs., 30c; 25 lbs., \$1.25; 100 lbs., \$4.00.

### AVENARIUS CARBOLINEUM.—Liquid.

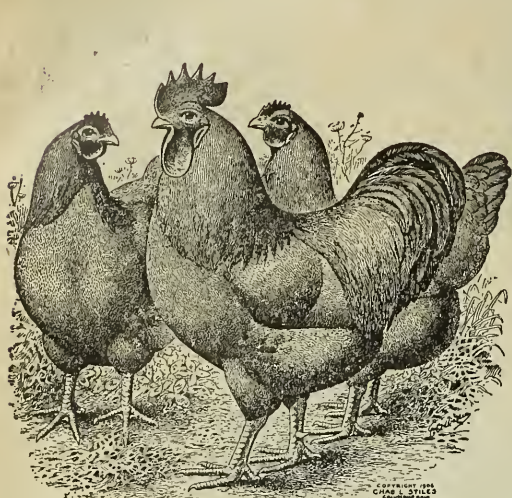
The famous German Wood Preserver and Insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum to permanently destroy all kinds of vermin and preserve your building from rot and decay. Prices, qt. can, 50c; gal., \$1.50. For large quantity, ask for prices.

### OCULUM.

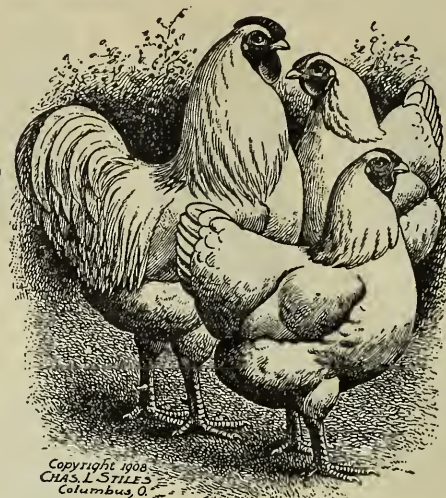


# VARIOUS POULTRY FOODS

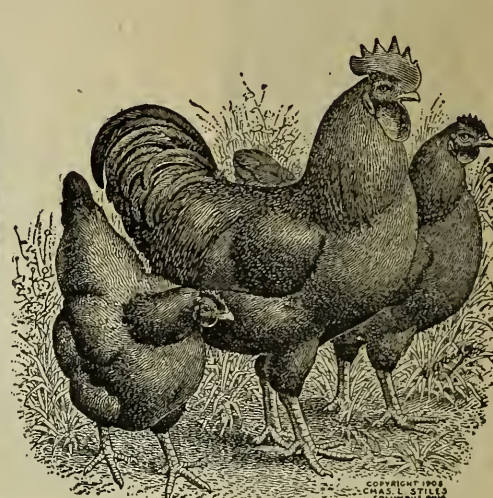
Prices Subject to Change. Ask for Latest Price List Sent Free



Buff Orpington.



White Wyandottes.



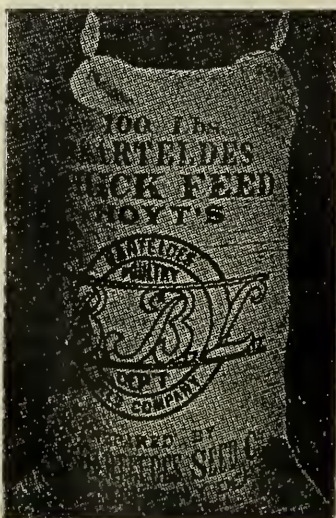
Rhode Island Red.

## BARTELDES' CHICK FEED (HOYT'S.)

The Best Balanced Dry Food for Chicks.

This is our own formula; beware of imitations. In Barteldes' Chick Feed we know we have a food far superior to any other chick feed on the market. It is made from the best of seed grain; in fact, every grain that is put in this food would grow if planted. It is a perfect chick food. It contains all the necessary ingredients that a chick needs. It will prevent bowel trouble and all other chick complaints. It is used by most every poultry raiser in Colorado. We have never had a single complaint against it; everyone pronounces it a wonderful food. Put up in our own printed sacks.

Price: 6-lb. pkg., 25c; 14-lb. sack, 50c; 30-lb. sack, \$1.00; 50-lb. sack, \$1.60; 100-lb. sack, \$3.00.



## DENVER CHICK FEED.

A good mixed chick feed, similar to Barteldes' Chick Feed, but not quite as complete in ingredients. 7 lbs. for 25c; 17 lbs. for 50c; 35 lbs. for \$1.00; 100 lbs. for \$2.50.

## BARTELDES' DEVELOPING FOOD.

Has no equal for growing chicks. A mixture of small grains, beef scraps, charcoal and other ingredients for the quick growth of poultry. Should be given as soon as chicks get too large to be fed Barteldes' Chick Feed. Price: 7 lbs. for 25c; 17 lbs., 50c; 50 lbs., \$1.35; 100 lbs., \$2.50.

## BARTELDES' FATTENING FOOD.

A fowl to be worthy of the highest market price must be "finished," that is, it must have a liberal quantity of fat and meat on its frame, and that is easily obtained by using Barteldes' Fattening Food. Price, 50-lb. sack, \$1.25; 100-lb. sack, \$2.25.

## DENVER LAYING FOOD.

A Carefully Balanced Mash Food for Eggs and Feather Making.

As we have had many years' experience in Colorado, we feel that we are familiar with the needs and requirements of our Western poultry breeders, and, in offering this Mash, we know we are offering a high grade article that gives favorable results. A trial will convince the most skeptical that this food is an egg producer.

Price, 50 lbs., \$1.10; 100 lbs., \$2.00.

## BARTELDES' MIXED HEN FEED.

This is a balanced food of mixed grains for laying hens. It contains grit, shell, bone, dried meat, sunflower and mixed grains of different kinds in suitable proportions, to promote egg yield. The variety of grains, shell, grit, dried meat, etc., being of different size induces fowls to scratch more, and as exercise is necessary to promote indigestion, they will be kept strong and vigorous.

Price fluctuates. Present price, 50 lbs., \$1.10; 100 lbs., \$2.00. Ask for quotations on large quantities.

## BARTELDES' MIXED PIGEON FEED.

Specially prepared for pigeons and squabs, contains red wheat, Kafir corn, cracked corn, buckwheat, many other suitable grains and shell. Price, 7 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.60.

## FLAX SEED MEAL.

A little fed occasionally to poultry is very beneficial. One tablespoonful in a mash to each dozen fowls, daily, is a great help during the moulting season. Present price: 1 lb., 10c; 3 lbs., 25c; 10 lbs., 80c; 25 lbs., \$1.90; 50 lbs., \$3.75.

## ALFALFA CLOVER MEAL.

This is alfalfa hay reduced to a meal containing the entire product—stalks, leaves and blossoms. It is a grand green food for winter. It furnishes protein, lime and other mineral salts. Fowls relish it immensely. Feeding clover insures an increase of fertile eggs. It likewise adds lustre to the plumage. In original sacks of 100 lbs. at \$1.50 per 100 lbs. Less sack lots at 2c per lb.

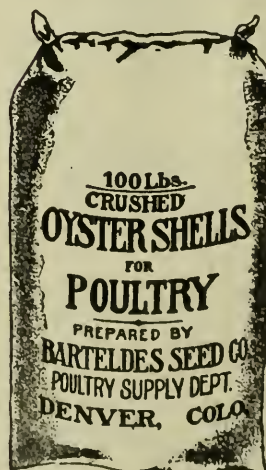
## MILLET SEED.

Let your fowls "work for their living" by scratching in litter for millet seed. It is a good food for the growing chicks. Price, 8 lbs. for 25c; 25 lbs. for 65c.

## GROUND OIL CAKE.

It is the greatest flesh former, milk and butter producer in use, and on a fair test will prove to be the most economical cattle food a farmer can use. It keeps his stock in excellent condition, and at the same time increases the quality and richness of milk. To poultrymen it is likewise of value in keeping fowls in good health. Price fluctuates. Present price: 8 lbs. for 25c; 25 lbs. for 70c; 50 lbs. for \$1.30; 100 lbs. for \$2.50.

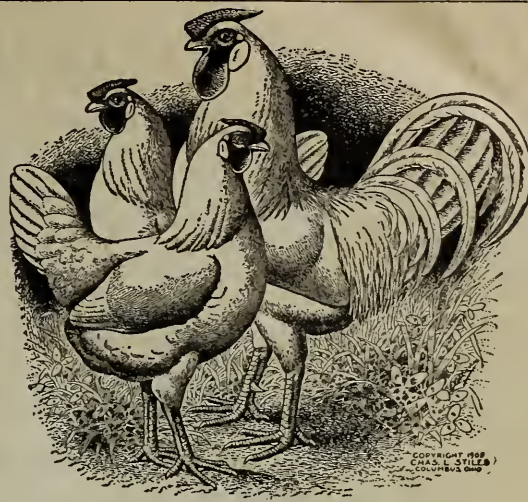
☞ Kafir Corn, Wheat, Corn, whole and cracked, Barley, whole and ground, small White Peas, at market prices. Remember, when you buy these Grain Foods from us you get full weight.







Black Minorcas.



Rose Comb Leghorn.

**CRUSHED OYSTER SHELL.**

This is a most important article for the poultry yard, and should be supplied to the fowls liberally.

Our shell is of superior quality, as all parts of the egg shell are contained in them; whereas a good portion of the shell offered is nothing more than the refuse of the fertilizer works and not fit to offer a decent hen.

5-lb. package .....	\$ .15
12-lb. package .....	.25
30-lb. sack .....	.40
50-lb. sack .....	.70
100-lb. sack .....	1.25

Ask for price on large quantities.

**Crushed Clam Shell**—Same price as Oyster Shell.

**GRAY GRANITE GRIT.**

It is made from crushed rocks found in the Rocky Mountains and of such composition that the expansion and contraction of the gizzard breaks it into small pieces, which keeps continually sharp until the last and smallest.

5 lbs., 15c; 12 lbs., 25c;	
30 lbs., 40c; 50 lbs., 70c; 100-lb. sack, \$1.25; 300 lbs., \$3.00.	

**MEAT AND BONE MEAL.**

Is a well balanced mixture of fine ground bone and meat meal. Admirably adapted for building up and fattening broilers. Prices: 13 lbs., 50c; 25-lb. sack, 85c; 50-lb. sack, \$1.60; 100-lb. sack, \$3.00.

**DRIED MEAT, BONE AND BLOOD.**

Similar to above, with addition of blood. Price: 13 lbs., 50c; 25 lbs., 85c; 50 lbs., \$1.60; 100-lb. sack, \$3.00.

**MEAT MEAL.**

Meat Meal is a concentrated food, containing 60 to 65 per cent. protein. In the meat meal we sell there is absolutely no adulteration, and the analysis will be found uniform throughout. A great flesh producer. 13 lbs., 50c; 25 lbs., 85c; 50 lbs., \$1.60; 100-lb. sack, \$3.00.

**GREEN CUT BONE—Granulated.**

Made from soluble bones, dried but not cooked, retaining all the marrow and oil in the bones. Price: 7 lbs., 25c; 15 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.35.

**GRANULATED BONE No. 1.—Coarse, Strictly Pure.**

Consists of ground beef bone, thoroughly dried and free from grease. Rich in phosphate of lime, which is so necessary for making good egg shells and for building up the frame of the chicken. Should be placed in liberal quantities in a clean, dry place, accessible to the chickens at all times.

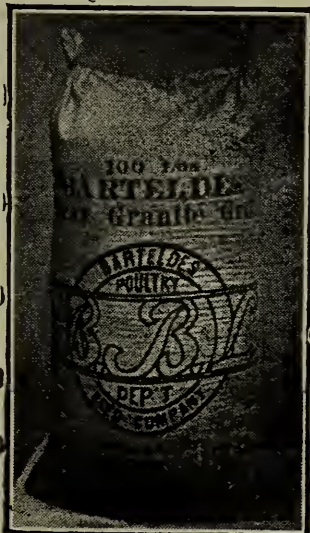
Price: 10 lbs., 50c; 25-lb. sack, \$1.00; 50-lb. sack, \$1.75; 100-lb. sack, \$3.25.

**GRANULATED BONE No. 2.—Second Grade.**

Made from good bones, though not selected. Price: 10 lbs., 35c; 25-lb. sack, 70c; 50-lb. sack, \$1.25; 100-lb. sack, \$2.40.

**SWIFT'S HIGH PROTEIN BEEF SCRAPS.**

A very superior grade of meat scraps prepared in a meal suitable for feeding in mash or with other soft foods. Contains fully 60 per cent. protein. Is bound to give good results. 4 lbs. for 25c; 25 lbs. for \$1.25; 50 lbs., \$2.15; 100 lbs., \$4.00.

**COLORADO HIGH PROTEIN BEEF SCRAPS.**

Practically the same as Swift's, but manufactured in Denver. 4 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.25; 50 lbs., \$2.15; 100 lbs., \$4.00.

**BONE MEAL No. 1.—Fine, Strictly Pure.**

Is the same as the coarse, but ground finer for the smaller chicks, and is a great frame builder. It can be mixed with the mash in limited quantities. Price: 10 lbs., 50c; 25-lb. sack, \$1.00; 50-lb. sack, \$1.75; 100-lb. sack, \$3.25.

**ARMOUR'S BLOOD MEAL.—Deodorized.**

Conceded to be one of the greatest egg producers on earth. It is a great chick grower. If you want winter eggs, blood meal will bring them. One of the cheapest foods there is: One lb. is equal to 16 lbs. of fresh meat. As to the advantage gained by feeding blood meal to young chicks, ducks and turkeys, we can say there is positively nothing better for them. One heaping teaspoonful a day fed in a mash for a dozen hens will make an increase of eggs that will be surprising. Price: 3 lbs., 25c; 10-lb. bag, 70c; 25 lbs., \$1.65; 50-lb. keg, \$2.75; 100-lb. keg, \$5.00.

**BLOOD MEAL, COLORADO MADE.**

Manufactured by our own Denver Packing Company, practically the same as Armour's but not fully deodorized. Price, 4 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.15; 50 lbs., \$2.15; 100 lbs., \$4.00.

**GREEN CUT MEAT AND BONE.—Dried.**

This is a Western product and a most excellent food, having all the elements necessary to make healthful growth. The meat is sufficiently evaporated to prevent becoming rancid. Keeps well. Should be placed in liberal quantities in a clean, dry place, easily accessible to the chickens at all times. Price, 7 lbs., 25c; 15 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100-lb. sack, \$2.35.

**RED PEPPER COMPOUND FOR POULTRY.**

This can be mixed with soft food and fed to advantage. Price, per lb., 40c; 5 lbs. for \$1.50; 25-lb. pall, \$6.00.

**CHARCOAL.**

Pure charcoal is an excellent aid in arresting bowel complaints, and is both simple and harmless. A corrector of bowel troubles where the hens have not had a variety.

**Granulated.** Suitable size for grown fowls; can be kept in open dish ready to be eaten as wanted. 2-lb. carton with directions, 25c; 10 lbs., 60c; 25 lbs., \$1.00; 100 lbs., \$3.00.

**Powdered.** Suitable for chicks' feed in soft food. Price same as above.





# CONKEY'S REMEDIES

**We handle a full line of Conkey's remedies and Tonics for poultry and stock.**  
**If interested ask for special circular sent free.**

Conkey's Roup Cure, 25c, 50c and \$1.00 packages.  
 Conkey's Bronchitis Cure, 50c package.  
 Conkey's Cholera Cure, 25c and 50c packages.  
 Conkey's Gape Cure, 50c package.  
 Conkey's Chicken Pox Cure, 50c package.  
 Conkey's Limberneck Cure, 50c package.  
 Conkey's Scaly Leg Cure, 50c package.  
 Conkey's Rheumatic Cure, 50c package.  
 Conkey's Poultry Worm Cure, 50c package.  
 Conkey's White Diarrhoea Cure, 25c and 50c packages.

Conkey's Poultry Tonic, 25c package.  
 Conkey's Lice Powder, 10c, 25c and 50c packages.  
 Conkey's Lice Killer, 35c; 60c and \$1.00 cans.  
 Conkey's Laying Tonic, 5c, 50c and \$1.00 packages.  
 Conkey's Horse Tonic, \$1.00 package.  
 Conkey's Healing Powder, 25c and 50c packages.  
 Conkey's Colic Remedy, 50c and \$1.00 packages.  
 Conkey's Hoof Remedy, 50c and 75c packages.  
 Conkey's Bag Ointment, 25c and 50c packages.  
 Conkey's Stock Tonic, 25c, 50c and \$1.00 packages.

## Dog Cakes, Remedies, Bird Foods, Etc.

**Spratt's Dog Cakes.** Dog cakes and bread should be fed dry; the dog having to gnaw them as they would a bone. When fed to puppies, dip in hot water or soup before giving. 5 lbs., 50c; 25-lb. case, \$2.25; 50-lb. case, \$4.50.

**Spratt's Puppy Cakes.** 2½-lb. net cartons, 25c; 5-lb. net cartons, 50c; 25-lb. box, \$2.40.

**Spratt's Terrier Cakes.** About 2½-lb. cartons, 25c.

**Spratt's Anti-Vomit Remedy.** Bottle, 50c.

**Spratt's Constipation Tablets.** Pkg., 50c.

**Spratt's Kidney Tablets.** Pkg., 50c.

**Spratt's Diarrhoea Tablets.** Pkg., 50c.

**Bitter Iron Tonic and Song Restorer.** Liquid. Creates appetite and restores lost song. 2-oz. bottle, 25c each.

**Malted Kitten Food in tins.** Price, 25c; by mail, 35c.

**Cat Food.** 12-ounce cartons, 10c; by mail, 25c; 2½-lb. cartons, 25c; not prepaid.

**McAllister's Mocking Bird Food.** Strictly pure and high grade. Per bottle, 25c; by mail, 50c.

**Barteldes' Columbine Grade Parrot Food.** Per package, 15c; by mail, 30c.

**Poultry Soap** with directions how to use it. Package, 25c; by mail, 30c.

**Dog Soap** with directions how to use it. Package, 25c; by mail, 30c.

**Bird Food Manna.** Song restorer and prevents disease. Each caged bird needs it. In round balls ready to fasten to wire of cage. 15c each, prepaid.

**Blitter Lick Bricks.** A new way to give conditioner to horses and cattle. Put up in bricks shaped so cattle can lick easily. One brick, about 2¼ lbs., 25c; dozen, \$2.50.

**Holder** for same, 20c each.

**Barteldes' Fish Food.** Per package, 10c; by mail, 15c. **Salt Cat** aids digestion, invigorates and promotes good health; brick, 15c; by mail, 30c.



## BIRD SEED.

**Canary, re-cleaned.** 1 lb. for 10c; 3 lbs. for 25c.

**Hemp, Russian, choice.** 1 lb. for 10c; 3 lbs. for 25c.

**Rape, choice.** 1 lb. for 10c; 3 lbs. for 25c.

Larger lots at market prices.

**Bird Sand.** Pure and sifted, 2½-lb. package, 10c.

**Cuttle Bone.** A piece should be in every cage. 2 oz., 10c; 1 lb., 50c.

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Used to pack the underside of the hoof when it is too low, or when inflamed; also to prevent cracking. It is a white rock, easily dissolved into a thick paste, which soon hardens. It does not crack easily and keeps its pliability a long time. Prices: 5 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.50.

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BARTELDES SEED CO.,  
 City.

Denver, Nov. 4, 1912.

Gentlemen: Some short time ago I had the pleasure of having your Mr. Stoner look over my poultry and make timely suggestions, which are doubly appreciated by me as I am a decided amateur at the chicken business.

I had expected to get a bill from you for those services, so did not write my thanks, but, upon the receipt of your letter, I found that there was no bill, hence take this means to express my thanks for the courteous treatment accorded me, by Mr. Stoner and for the kindness extended by you.

Respectfully,

E. B. SWERDFEGER.



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**SATISFACTION OR YOUR  
MONEY BACK**

# Pratts

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This is the original Poultry Regulator of America, in use by the most successful poultry-raisers everywhere.

It is entirely different from Pratts Animal Regulator. It is a perfect digestive and tonic suited to the constitution of poultry.

It is a guaranteed egg producer, and when regularly used, hens lay throughout the year.

It prevents chicken cholera, gapes, roup, rheumatism, expels worms, prevents leg weakness, egg eating. It also greatly improves turkeys, geese, ducks, pigeons and guineas—making them grow bigger and quicker.

100-lb. bags, \$9.00; 25-lb. pails at \$2.50. 25c, 50c and \$1.00 packages.

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is the strongest liquid preparation on the market for the destruction of poultry lice on horses, cattle, cows and hogs; ticks on sheep, and fleas on cats and dogs. 35c., 60c and \$1.00 cans.

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This remedy will positively save many dollars worth of little chicks to poultry raisers. It has taken us nearly three years to find a remedy for White Diarrhoea and we are so sure that we have it in this article that we authorize our dealers throughout the world to refund the purchase price in case it fails. 25c and 50c a box. Mailed, postpaid, on receipt of price.

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This is one of the greatest money Savers and greatest Chick Savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratts Baby Chick Food. It is a scientific food ration to be fed for the first three weeks. If you want real success with your hatchings, if you want to save all the baby chicks, if you want them to grow fast—get Pratts Baby Chick Food on our recommendation for your first trial, after that you will never be without it. Put up in 1-lb., 3-lb., 6½-lb., packages; also 14-lb., 25-lb., 50-lb. and 100-lb. bags. One-pound package by mail, 35c, postpaid.

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It quickly and thoroughly kills all lice on little chicks, big chicks, setting hens, and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys insects and bugs on vines, plants and flowers. A valuable deodorizer and disinfectant, for all poultry houses, barns, stables and dwellings. Drives out moths from closets, furniture, carpets and clothing. 25c and 50c.

### PRATTS BRONCHITIS REMEDY.

Bronchitis in poultry is fatal in a few days unless promptly checked with Pratts Bronchitis Remedy. This remedy is sure, safe and quick and will save your birds. 25c and 50c boxes. Mailed, postpaid, on receipt of price.

### PRATTS CONDITION TABLETS.

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This is the original and pioneer Stock Regulator of America. It keeps horses well and strong, improves their wind, and makes their coat sleek and glossy.

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### PRATTS HEALING OINTMENT.

(For Man and Beast.)

This is a humane preparation for the quick cure of all sores, cuts, scratches, grease wounds, burns, scalds, corns, harness and saddle galls, barb-wire fence cuts, itching, eczema and eruptions. Heals naturally, permanently and leaves no dangerous scabs. Excellent for human use, too. 25c and 50c.

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How to make these baskets is now taught in nearly all schools and kindergartens, and is also practiced in many homes as a pastime or as a source of revenue. These baskets are made of **Raffia** in both natural and dyed colors. We are headquarters for this and can furnish it in any quantity and in many different colors.

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Per small bunch, 5c; 2 ozs., 10c; per ¼ lb. of one color, 20c; per ½ lb. of one color, 35c; per lb. of one color, 65c  
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 No. 7, Orange. No. 14, Burnt  
 No. 8, Jet Black. Orange.

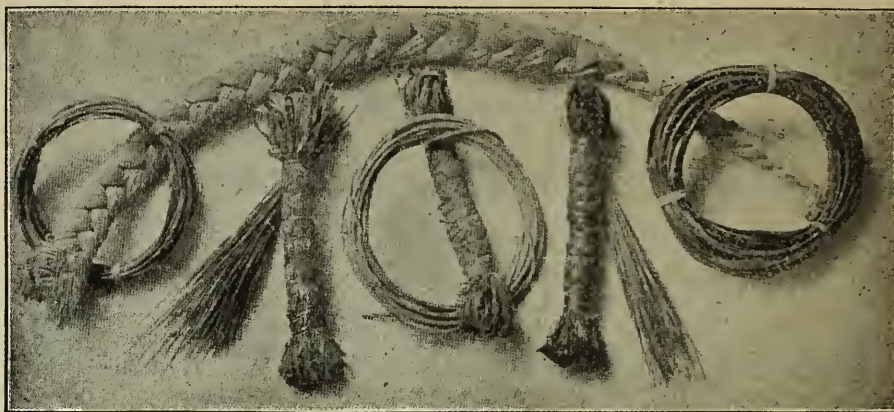
**NATURAL.—1st Grade.** Per 3 oz. bunch, 10c; per ½ lb., 20c; per 1 lb., 30c. In original skeins of 1½ to 3 lbs. each at 25c per lb. 5-lb. lots or more at 20c a lb.

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We will be pleased to send free our set of samples, showing all our colors on a card. Large lots to teachers and professional weavers at special prices.

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No. 21, 1½ inch long; No. 18, 1¼ inch long; No. 17, 2 inches long. Six needles for 5c. A package of 25 one size for 15c. We can furnish needles blunt or sharp point.

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Made of Nothing but Perfect Leaves.

These plants are especially recommended for use in house decorating, for hallways, in reception rooms, on pedestals, hotels, public buildings, etc.

We import the stock and have the plants manufactured by an expert in our own establishment. This enables us to furnish a strictly fresh looking plant with leaves unbroken, and far more bushy than those ordinarily offered. Our stock needs to be seen to be appreciated.

The size of leaves are furnished in proportion to size of plants. Harmony of shape and proportion is carefully observed in manufacturing these plants.

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In 4-in. pots, 18 in. high, 5—6 leaves, each.....	\$1.00
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Package, 10c; 12 packages for \$1.00.

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**Immortelles.** We carry a large stock of strictly first grade article, highly colored. Scarlet, purple, pink, blue, green, white and yellow. Per bunch, 50c.

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12 to 16 in. long.....	.25	.80
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28 to 32 in. long.....	.50	1.90
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Cucumber	Pastinake	Panais	Chirivia	Pastinaca
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Kidney Beans	Haferwurz	Salsifis	Salsifi blanco	Sassefrica
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## HOT TAMALE RECIPE

Mix one-fourth pound of beef, veal or chicken cooked tender and chopped fine, one small spoonful lard or butter, some salt, and 1 teaspoonful Chili pods ground fine. Make a thick dough with a cup corn meal, 1 teaspoonful salt, 1 teaspoonful shortening and boiling water. Boil corn husks 10 minutes, and rub with a cloth dipped in hot lard.

Put a layer of dough on the husks, 4 inches long, 1½ inches wide and ¼ inch thick. Along the center spread two teaspoonfuls prepared meal, roll like a cigarette, and turn ends under. Place a potato strainer, ends down, over hot water, steam one-half hour. This makes about a dozen. Serve hot.

## CHILE CON CARNE RECIPE

One-fourth pound of Chili peppers, without the seeds, chopped fine, 1 teaspoonful Petine (pulverized), 1 teaspoonful Comino (pulverized), 1 teaspoonful Oregano (pulverized), 4 small pieces of garlic, 2 pounds of boiling beef, chopped fine, and a small piece of suett about the size of an egg cut into small dice. Mix all together, add sufficient water to cover and boil until thoroughly done. Cook two pounds of beans separately. Use a teaspoonful of celery seed and a teaspoonful of yellow mustard for seasoning if desired. When serving, put the beans into a dish first, then pour the chili over it. This is known to many as a blood cooler.

### PRICE LIST FOR INGREDIENTS.

Dealers and others using quantity, will do well to ask us for prices for large lots.

Per lb.	Per 10 lb. lots.	Per lb.	Per 10 lb. lots.	Per lb.	Per 10 lb. lots.
Chili Pepper Pods, dry...45c	\$3.80	Comino Seed .....25c	\$2.00	Mexican Beans .....10c	\$ .70
Japanese Chili Pods.....40c	3.75	Oregano .....30c	2.25	Corn Husks .....30c	2.50
True Petines .....90c	8.50	Garlic .....20c	1.50		

## FLAVORING SEEDS

We carry a full line of seeds expressly for use in flavoring pickles, soups; also baking, etc.

Per ¼ lb.	Per lb.	Per ¼ lb.	Per lb.	Per ¼ lb.	Per lb.
Anise, Italian .....10c	30c	Pumpkin Seed, for medicinal use .....10c	25c	Mustard, Yellow .....10c	20c
Dill .....10c	30c	Water Melon Seed, for medicinal use .....10c	25c	Mustard, Black .....10c	20c
Caraway, clean and fresh...10c	20c	Poppy, Blue .....10c	25c	Fennel .....10c	25c
Coriander, bleached .....10c	20c			Cardamon Seed, select, oz., 15c	\$1.50
Celery .....20c	65c				

If tamale ingredients and flavoring seeds are wanted by mail, add 16c lb.

## USEFUL TABLES

### Quantity of Seed Required for a Given Number of Hills.

Hills	Hills
Pole Beans.....1 lb. to 100	Muskmelons ....1 oz. to 60
Corn .....1 lb. to 300	Okra .....1 oz. to 100
Cucumbers .....1 oz. to 50	Pumpkins .....1 oz. to 30
Watermelons ...1 oz. to 30	Squash .....1 oz. to 30

### Table Showing the Number of Plants or Trees to the Acre at Given Distance.

Dist. apart	No. Trees	Dist. apart	No. Trees
1 foot .....43,500	9 feet .....537		
1½ feet .....19,360	12 feet .....302		
2 feet .....10,890	15 feet .....193		
2½ feet .....6,960	18 feet .....134		
3 feet .....4,840	21 feet .....98		
4 feet .....2,722	24 feet .....75		
5 feet .....1,740	27 feet .....59		
6 feet .....1,210	38 feet .....30		

### Number of Tree Seeds to the Pound.

About
American White Ash.....10,000
Apple .....12,000
Arbor Vitae American.....300,000
Alanthus .....20,000
Balsam Fir .....80,000
Black Cherry .....4,000
Black or Yellow Locust.....30,000
Box Elder .....15,000
Catalpa Speciosa .....20,000
Catalpa, Teas Japan.....70,000
Cherry Pits .....1,000
European Elm .....50,000
European Linden .....5,000
Gum, Eucalyptus .....20,000
Hemlock Spruce .....100,000
Hickory Nuts .....50
Honey Locust .....2,500
Mammoth Maple .....7,000
Mulberry, all kinds.....200,000
Norway Spruce .....70,000
Osage Orange .....10,000
Paw Paw .....400
Peach .....200
Pear and Quince.....15,000
Red Cedar .....8,000
Soft Maple .....2,000
Sugar Maple .....7,000
Sweet Chestnut .....100
Sycamore Maple .....6,000
Walnut .....25

### No. of Days

Beans .....40 to 90
Beets .....50 to 100
Cabbages .....80 to 120
Cauliflowers .....100 to 120
Carrots .....60 to 100
Celery .....120 to 140
Sweet Corn, table use.....65 to 80
Cucumbers .....50 to 60
Egg Plants .....140 to 150

### Weight of Different Manures to Apply to Different Crops per Acre.

Potatoes .....Stable 15 to 30 tons
Mangel Wurzel .....Stable 20 to 30 tons
Carrots .....Stable 12 to 20 tons
Beans .....Stable 12 to 20 tons
Onions .....Stable 25 to 40 tons

### Quantity of Seed Required for a Given Length of Drill.

Feet of Drill	Feet of Drill
Asparagus .....1 oz. 50	Parsley .....1 oz. 150
Beet .....1 oz. 100	Parsnips .....1 oz. 150
Beans—Dwarf .....1 lb. 100	Peas .....1 lb. 100
Carrot .....1 oz. 150	Radishes .....1 oz. 125
Endive .....1 oz. 150	Salsify .....1 oz. 100
Okra .....1 oz. 80	Spinach .....1 oz. 150
Onions .....1 oz. 150	Turnip .....1 oz. 150

### Quantity of Seed Required for a Given Number of Plants.

Plants	Plants
Asparagus .....1 oz. 300	Marjoram .....1 oz. 1,500
Cabbage .....1 oz. 2,000	Pepper .....1 oz. 1,500
Cauliflower .....1 oz. 1,500	Rhubarb .....1 oz. 500
Celery .....1 oz. 2,500	Tomato .....1 oz. 1,500
Endive .....1 oz. 3,000	Thyme .....1 oz. 4,000
Egg Plant .....1 oz. 1,500	Sage .....1 oz. 1,000
Leek .....1 oz. 1,000	Savory .....1 oz. 2,000
Lettuce .....1 oz. 3,000	

### Amounts of Seed Sown to the Acre in Drills.

No. Lbs.
Dwarf Beans .....60 to 80
Early Peas .....90 to 120
Marrowfat Peas .....60 to 80
Beets .....6 to 8
Mangel Wurzel .....4 to 5
Carrots .....2 to 3
Onions .....4 to 5
Onions for sets.....20 to 30
Onion Sets .....300 to 350
Parsnips .....4 to 5
Radishes .....8 to 10
Rutabagas .....1 to 1½
Spinach .....10 to 12
Salsify .....6 to 7

### Table to Assist Farmers and Gardeners in Making an Accurate Estimate of the Amount of Land in Different Fields Under Cultivation.

10 rods by 16 rods equal.....1 acre
8 rods by 20 rods equal.....1 acre
5 rods by 32 rods equal.....1 acre
4 rods by 40 rods equal.....1 acre
5 yards by 968 yards equal.....1 acre
10 yards by 484 yards equal.....1 acre
40 yards by 121 yards equal.....1 acre
209 feet by 209 feet equal.....1 acre
200 feet by 108.9 feet equal.....½ acre
100 feet by 145.2 feet equal.....¼ acre
100 feet by 108.9 feet equal.....¼ acre

### Maturity Table.

No. of Days
Endives .....50 to 70
Kale .....100 to 130
Kohl Rabi .....80 to 90
Lettuce .....40 to 65
Melons .....80 to 100
Mangel Wurzel .....140 to 150
Okra .....90 to 100
Onions for green.....60 to 70
Onions for storage.....120 to 160
Parsnips .....120 to 140

### Weights per Bushel and Amounts of Seed Sown to the Acre.

Lbs. per bu.	No. lbs. to acre
Alfalfa Clover .....60	20 to 30
Red Clover .....60	12 to 15
White Clover .....60	6 to 8
Alsike Clover .....60	5 to 8
Timothy .....45	10 to 12
Blue Grass (standard weight) .....14	25 to 30
Red Top (hulled seed).....38	15 to 20
Mixed Grasses .....14	30 to 40
English Rye Grass.....20	25 to 30
Oats .....32	32 to 64
Barley .....48	60 to 90
Corn .....56	8 to 10
Orchard Grass .....14	20 to 25
Hungarian Millet .....48	25 to 35
Common Millet .....50	25 to 40
German Millet .....50	25 to 40
Hemp .....44	35 to 55
Flax .....56	30 to 40
Buckwheat .....52	30 to 50
Rye .....56	60 to 80
Wheat .....60	60 to 80
Sugar Cane for Fodder.....50	50 to 60
Peas, Field .....60	40 to 80
Top Onion Sets.....28	250 to 300

### No. of Days

Peas .....50 to 80
Peppers .....120 to 140
Pumpkins .....100 to 120
Radish .....25 to 45
Salsify .....120 to 160
Spinach .....30 to 40
Squash, Summer .....55 to 65
Squash, Winter .....100 to 120
Tomatoes .....90 to 110
Turnips .....45 to 90

Nitrate of Soda and Potash.....250 lbs.
Salt .....250 to 500 lbs.
Soot .....1,000 to 1,500 lbs.
Concentrated Fertilizers for garden or field cultures .....500 to 800 lbs.



# SELECTED WESTERN SEEDS



## THE BARTELDES SEED CO.

Denver, Colorado